ORDER NO. MD0108180C3

Service Manual

CD Stereo System

SA-PM141

Colour

(W)... White Type

Area

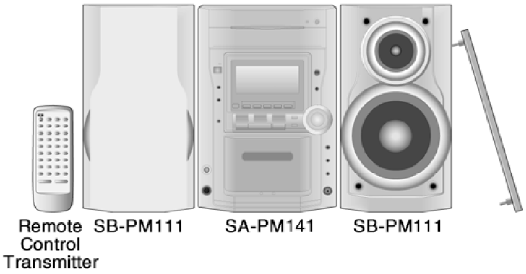
(GC)... Asia, Latin America, Africa and Middle Near East

TAPE SECTION :

AR2 MECHANISM SERIES

CD SECTION :

RAE0152Z-3 TRAVERSE DECK SERIES


Remote Control Transmitter
SB-PM111
SA-PM141
SB-PM111

SPECIFICATIONS

Specifications

■ AMPLIFIER SECTION

PMPO power output	1000 W
RMS power output	
THD 10%, both channels driven	50 W per channel (6 Ω)
Input sensitivity	
AUX	250 mV
MIC	0.7 mV
Input Impedance	
AUX	13 kΩ
MIC	680 Ω

■ FM TUNER SECTION

Frequency range	87.50 - 108.00 MHz (50 kHz steps)
Sensitivity	2.5 μV (IHF)
S/N 26 dB	2.2 μV
Antenna terminal(s)	75 Ω (unbalanced)

■ AM TUNER SECTION

Frequency range	522-1629 kHz (9 kHz steps) 520-1630 kHz (10 kHz steps)
Sensitivity	
S/N 20 dB (at 999 kHz)	560 μV/m

■ CASSETTE DECK SECTION

Track system	4 track, 2 channel
Heads	
Record/playback	Solid permalloy head
Erasure	Double gap ferrite head
Motor	DC servo motor
Recording system	AC bias 100 kHz
Erasing system	AC erase 100 kHz
Tape speed	4.8 cm/s
Frequency response (+3 dB, -6 dB at DECK OUT)	
NORMAL (TYPE I)	50 Hz - 13 kHz
HIGH (TYPE II)	50 Hz - 13 kHz
S/N	50 dB (A weighted)
Wow and flutter	0.18 % (WRMS)
Fast forward and rewind time	Approx. 120 seconds with C-60 cassette tape

■ CD SECTION

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source/wave length	Semiconductor laser/780 nm
Number of channels	Stereo
Frequency response	20 Hz - 20 kHz (+1, -2 dB)
Wow and flutter	Below measurable limit
Digital filter	8 fs
D/A converter	MASH (1 bit DAC)
Video CD	
Video data	Based on MPEG 1
Audio data	Based on MPEG 1 Layer 2
Video output	
Video format	NTSC/PAL

Output voltage	1 Vp-p, 75 Ω
Physical format	Based on CD-ROM format
■ **MP3**	
MP3 decode	Based on MPEG 1 Layer 3
Bitrate	32 kbps-320kbps
Sampling frequency	32 kHz, 44.1 kHz, 48 kHz
■ **GENERAL**	
Power supply	AC 110V/127V/220-230V/240V, 50/60Hz
Power consumption	130 W
Standby	0.99 W
Dimensions (W x H x D)	200 x 260 x 345 mm
Mass	6.0 kg
■ **SYSTEM**	
SC-PM141(GC)	Music Center: SA-PM141(GC) Speaker: SB-PM111(GC)

Notes:

1. Specifications are subject to change without notice. / Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1. Before Use

Be sure to disconnect the mains cord before adjusting the voltage selector.
Use a minus(-) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used. (If the power supply in your area is 117V or 120V, set to the "127V" position.)
Note that this unit will be seriously damaged if this setting is not made correctly. (There is no voltage selector for some countries, the correct voltage is already set.)

2. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C506, C507 and C508 through a 10 Ω, 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at AC 110/127/220/240V, 50 Hz in NO SIGNAL mode should be ~420mA, ~420mA, ~300mA, ~300mA respectively.

3. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- **No sound is heard when the power is turned on.**
- **Sound stops during a performance.**

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

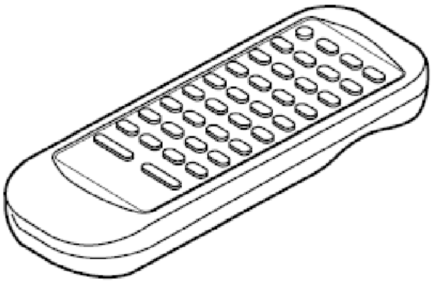
1. **Turn off the power.**
2. **Determine the cause of the problem and correct it.**
3. **Turn on the power once again after one minute.**

Note :

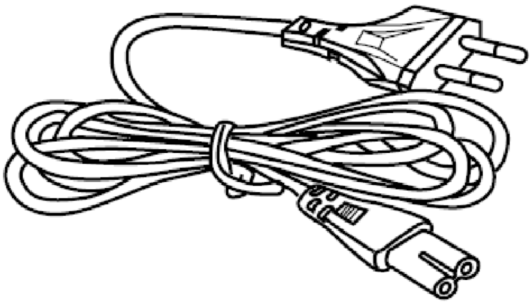
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

4. Accessories

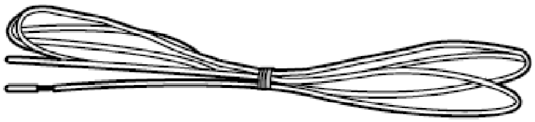
Remote Control Transmitter



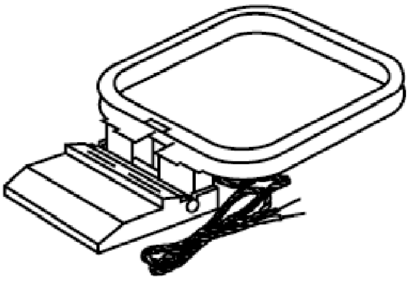
AC power supply



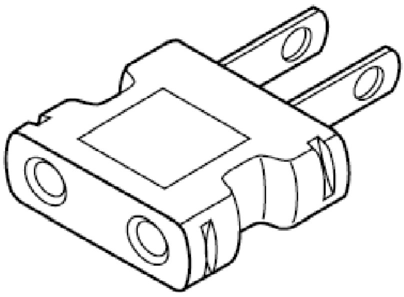
FM antenna wire



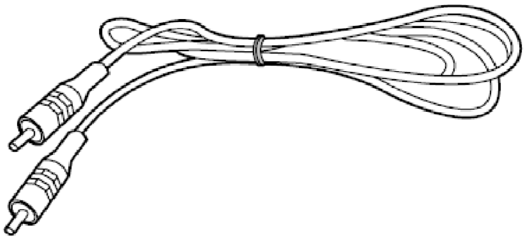
AM loop antenna



Power plug adaptor



Video connection cable

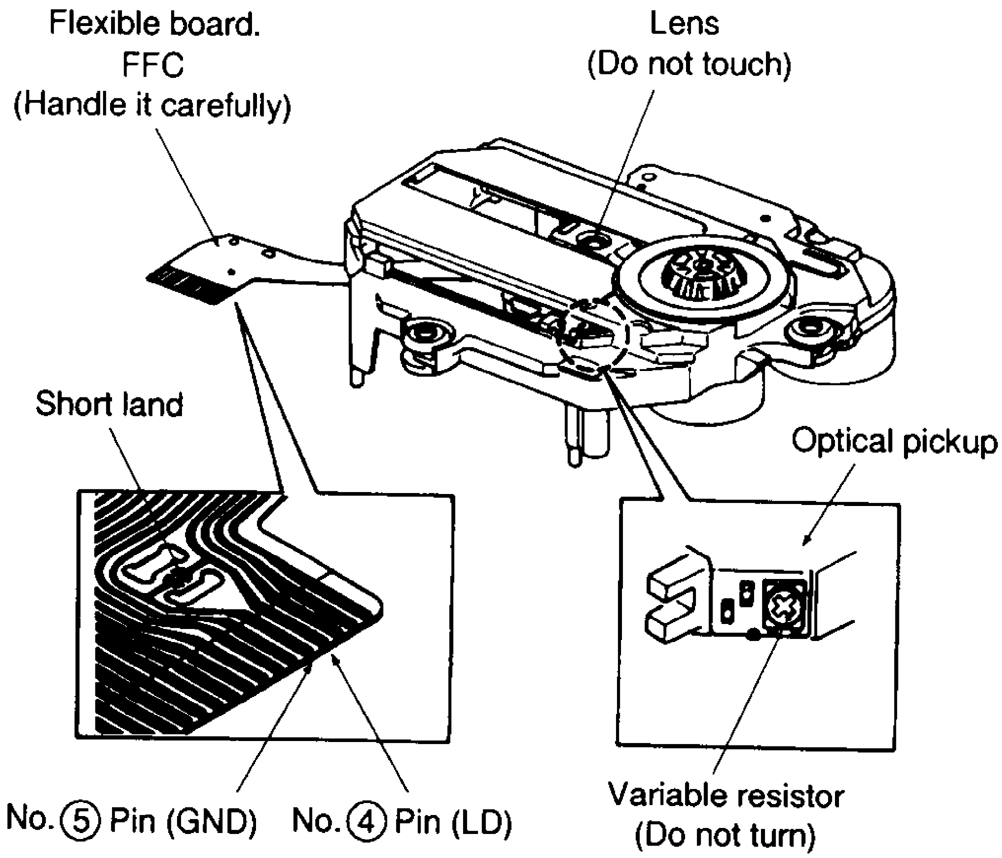


5. Handling Precautions For Traverse Deck

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body.
So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

- Handling of traverse deck (optical pickup)

1. **Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.**
2. **The short land between the No.4(LD) and No.5(GND) pins on the flexible board (FFC) is shorted with a solder build-up to prevent damage to the laser diode.To connect to the PC board, be sure to open by removing the solder build-up, and finish the work quickly.**
3. **Take care not to apply excessive stress to the flexible board (FFC).**
4. **Do not turn the variable resistor (laser power adjustment). It has already been adjusted.**


Flexible board.
FFC
(Handle it carefully)
Lens
(Do not touch)
Short land
Optical pickup
No.⑤ Pin (GND)
No.④ Pin (LD)
Variable resistor
(Do not turn)

- Grounding for electrostatic breakdown prevention

1. **Human body grounding**

   Use the anti-static wrist strap to discharge the static electricity from your body.

2. **Work table grounding**

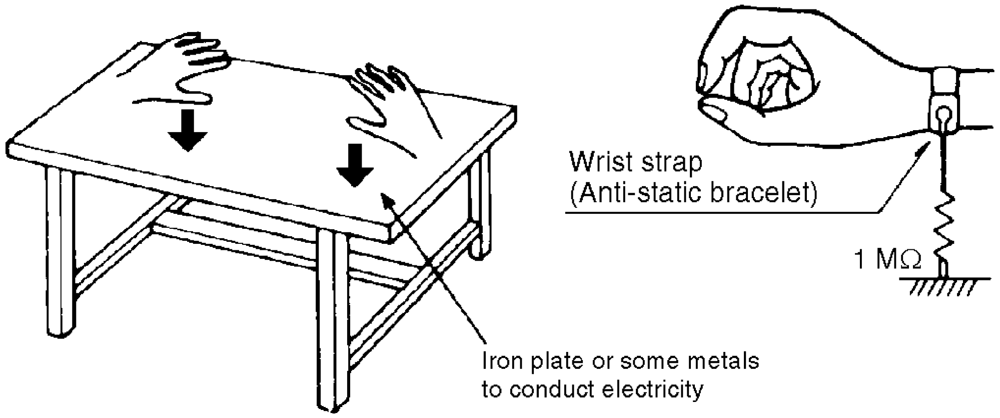
   Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

Caution :

The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

Caution when Replacing the Traverse Deck :

The traverse deck has a short point shorted with solder to protect the laser diode against electrostatics breakdown. Be sure to remove the solder from the short point before making connections.



6. Precaution of Laser Diode

Caution :

This product utilizes a laser diode with the unit turned "ON", invisible laser radiation is emitted from the pick up lens. / Wavelength : 780 nm / Maximum output radiation power from pick up : 100 µ W/VDE / Laser radiation from pick up unit is safety level, but be sure the followings:

1. Do not disassemble the optical pick up unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pick up unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pick up lens for a long time.

ACHTUNG :

Dieses Produkt enthält eine Laserdiode. Im eingeschalteten Zustand wird unsichtbare Laserstrahlung von der Lasereinheit abgestrahlt. / Wellenlänge : 780nm / Maximale Strahlungsleistung der Lasereinheit :100 µ W/VDE / Die Strahlung an der Lasereinheit ist ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlinse blicken.

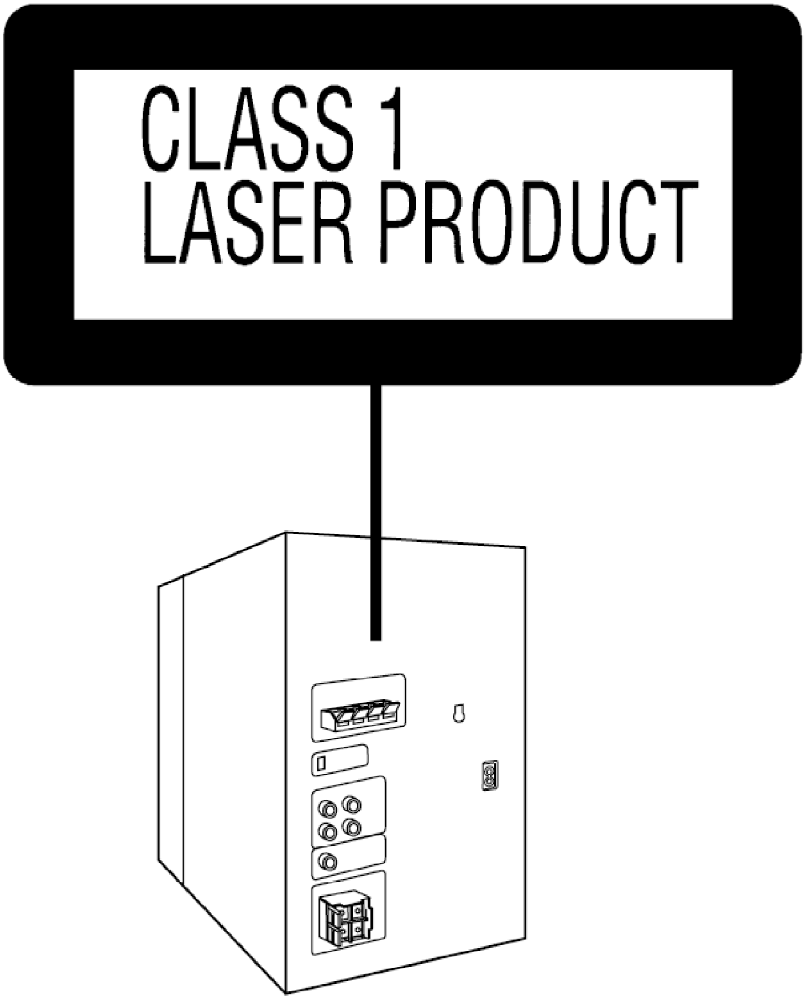
4. Nicht über längere Zeit in die Fokussierlinse blicken.

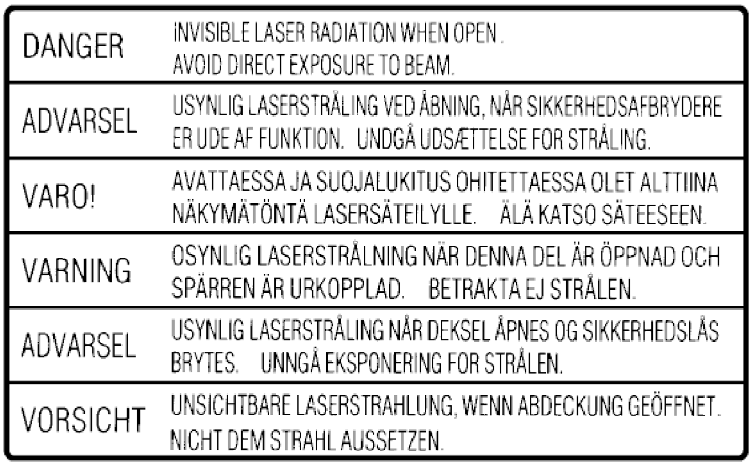
ADVARSEL: I dette a apparat anvendes laser.

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN TH
SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

■ Use of Caution Labels



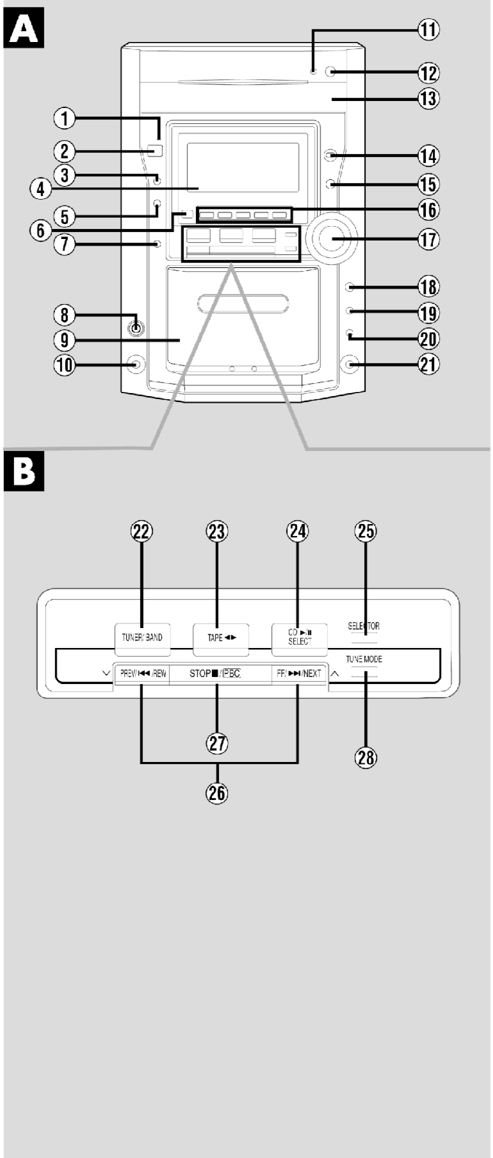


DANGER	INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTÖNTÄ LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.

Inside of product

7. Operation Procedures

7.1. Front Panel



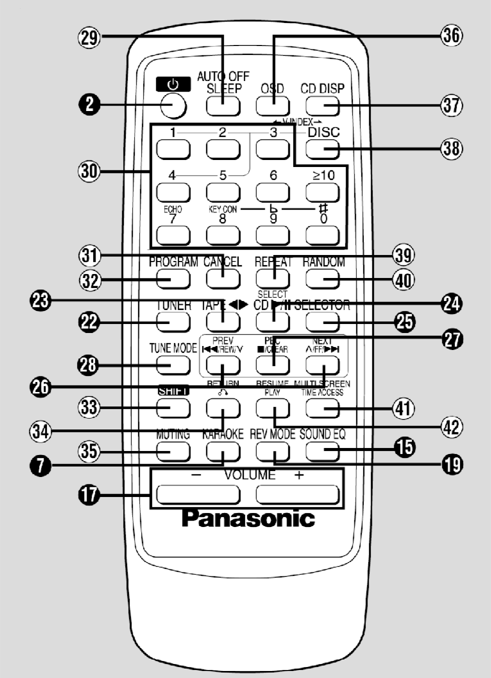
A Main unit

No.	Name
①	**AC supply indicator (AC IN)** This indicator lights when the unit is connected to the AC mains supply.
②	**Standby/on switch (⏻/I, POWER)** Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
③	**Clock/timer and demonstration button (CLOCK/TIMER, –DEMO)**
④	**Display**
⑤	**Play timer/record timer button (⏲PLAY/⏲REC)**
⑥	**Remote control signal sensor**
⑦	**Karaoke button (KARAOKE)**
⑧	**Microphone volume control (MIC VOL)**
⑨	**Cassette holder**
⑩	**Microphone jack (MIXING MIC)**
⑪	**CD manager button (CD MANAGER)**
⑫	**CD tray open/close button (⏏ CD OPEN/CLOSE)**
⑬	**Disc tray**
⑭	**Super sound equalizer button (SUPER SOUND EQ)**
⑮	**Sound equalizer control (SOUND EQ)**
⑯	**Disc direct play (CD 1 ~ CD 5)**
⑰	**Volume control (VOLUME DOWN, UP)**
⑱	**Deck open button (⏏ DECK OPEN)**
⑲	**Reverse mode select button (REV MODE)**
⑳	**Recording start/pause button (● REC / ❚❚)**
㉑	**Headphone jack (PHONES)**

B Center console

㉒	**Tuner/band select button (TUNER/BAND)**
㉓	**Tape play/direction button (TAPE ◄ ►)**
㉔	**CD play/pause and select button (CD ►/❚❚ , SELECT)**
㉕	**CD, Tuner, Tape, Aux select button (SELECTOR)**
㉖	**Previous, next, skip/search/preset channel button (∨ PREV/I◄◄/REW, FF/►►I/NEXT ∧)**
㉗	**CD, Tape stop and PBC on/off button (STOP ■/PBC)**
㉘	**Tuning mode select and FM mode/BP button (TUNE MODE)**

7.2. Remote Control


㉙
㊱
❷
㊲
㊳
㉚
㉛
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㉔
㉒
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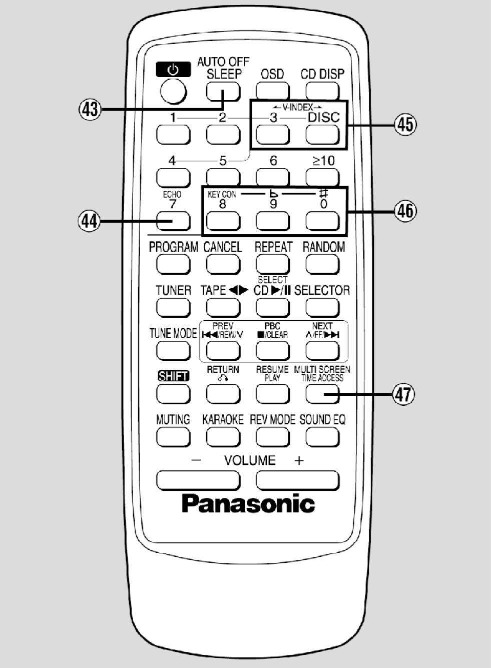
㉘
㉖
㉝
㊶
㉞
㊷
㉟
⓯
❼
⓳
⓱
AUTO OFF
SLEEP
OSD
CD DISP
V-INDEX
DISC
1
2
3
4
5
6
≥10
ECHO 7
KEY CON 8
♭ 9
♯ 0
PROGRAM
CANCEL
REPEAT
RANDOM
SELECT
TUNER
TAPE ◀▶
CD ▶/II
SELECTOR
TUNE MODE
PREV
PBC
NEXT
SHIFT
RETURN
RESUME PLAY
MULTI SCREEN TIME ACCESS
MUTING
KARAOKE
REV MODE
SOUND EQ
− VOLUME +
Panasonic


㊸
㊹
㊺
㊻
㊼
AUTO OFF
SLEEP
OSD
CD DISP
V-INDEX
DISC
ECHO 7
KEY CON 8
♭ 9
♯ 0
PROGRAM
CANCEL
REPEAT
RANDOM
TUNER
TAPE ◀▶
CD ▶/II
SELECTOR
TUNE MODE
SHIFT
RETURN
RESUME PLAY
MULTI SCREEN TIME ACCESS
MUTING
KARAOKE
REV MODE
SOUND EQ
− VOLUME +
Panasonic

Remote control

The names of the buttons on the remote control are colour coded to distinguish function and usage.
The main function buttons (TUNER, TAPE, CD, SELECTOR) are coloured green. If any of these buttons is pressed, the power comes on, and play also starts if either TUNER, TAPE or CD is pressed.
The buttons labelled in blue are used with menu play. (menu play: see page 26.)

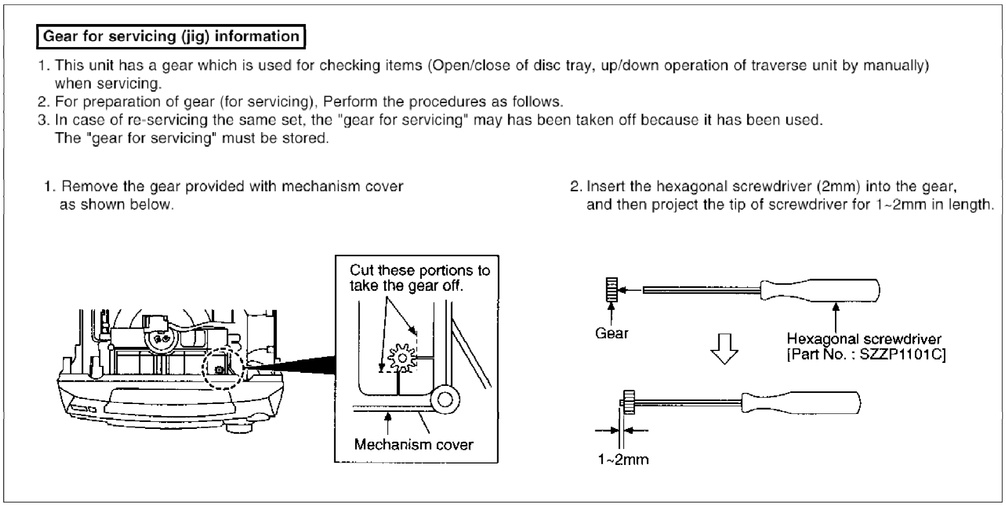
Buttons such as ❷ functions in exactly the same way as the buttons on the main unit.

No.	Name
㉙	**Sleep button (SLEEP)**
㉚	**Numeric buttons (≥10, 1–9, 0)**
㉛	**Cancel button (CANCEL)**
㉜	**Program button (PROGRAM)**
㉝	**Shift button (SHIFT)**
㉞	**Return button (↶ RETURN)**
㉟	**Muting button (MUTING)**
㊱	**On-screen display button (OSD)**
㊲	**CD display button (CD DISP)**
㊳	**Disc button (DISC)**
㊴	**Repeat button (REPEAT)**
㊵	**Random button (RANDOM)**
㊶	**Time access button (TIME ACCESS)**
㊷	**Resume play button (RESUME PLAY)**

Use the functions labelled in orange by holding down [SHIFT] (㉝), then pressing the button.

No.	Name
㊸	**Auto power-off button (AUTO OFF)**
㊹	**Echo button (ECHO)**
㊺	**Video index buttons (◢ V-INDEX ◣)**
㊻	**Key control buttons (KEY CON, ♭, ♯)**
㊼	**Multi screen button (MULTI SCREEN)**

8. Disassembly and Main Component Replacement Procedures



Gear for servicing (jig) information

1. This unit has a gear which is used for checking items (Open/close of disc tray, up/down operation of traverse unit by manually) when servicing.
2. For preparation of gear (for servicing), Perform the procedures as follows.
3. In case of re-servicing the same set, the "gear for servicing" may has been taken off because it has been used. The "gear for servicing" must be stored.

1. Remove the gear provided with mechanism cover as shown below.

2. Insert the hexagonal screwdriver (2mm) into the gear, and then project the tip of screwdriver for 1~2mm in length.

“ATTENTION SERVICER”

Some chassis components may have sharp edges.
Be careful when disassembling and servicing.

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures.**
   Special reassembly procedures are described only when required.
3. **Select items from the following index when checks or replacement are required.**

Contents

- **Disassembly and assembly main unit**
  1. **Checking of the Main, Panel, Transformer and Power P.C.B.**
- **Main Component Replacement Procedures**
  1. **Replacement of the Traverse Deck.**
  2. **Replacement of the Power Amplifier IC.**
- **Disassembly and assembly of the Traverse Unit**
- **Disassembly and assembly of the Disc Tray**

Warning:

This product uses a laser diode. Refer to .

ACHTUNG:

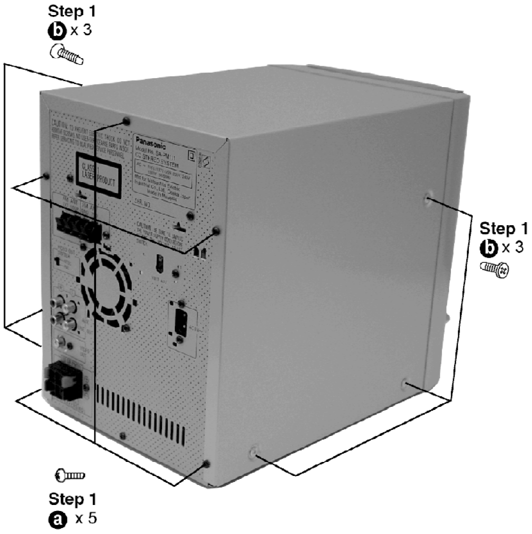
Die Lasereinheit nicht zerlegen. / Die Lasereinheit darf nur gegen eine vom Hertsteller spezifizierte Einheit ausgetauscht werden.

8.1. Disassembly Procedure for each major P.C.B.

- Checking for Main P.C.B., Panel P.C.B., Transformer P.C.B. and Power P.C.B..

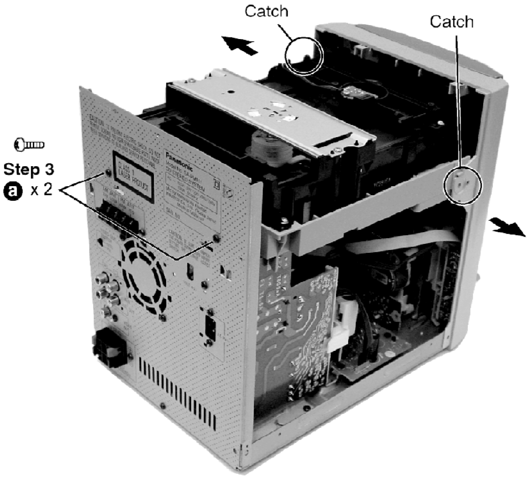
Step 1 Remove 3 screws each side and 5 screws at rear panel.

Step 2 Remove the Top Cabinet

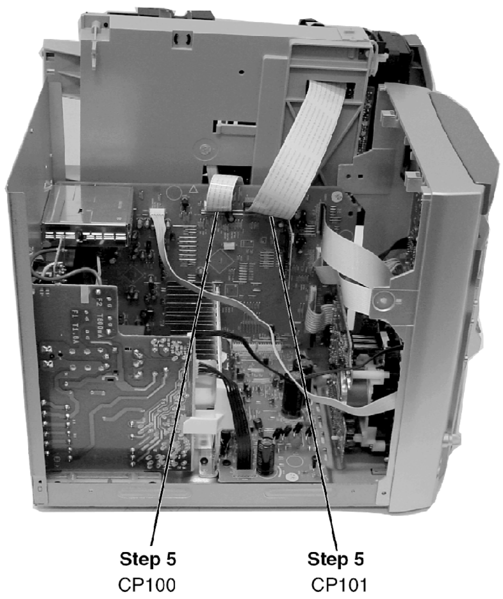

Step 1
b x 3
Step 1
b x 3
Step 1
a x 5

Step 3 Remove 2 screws at rear panel to release CD lid.

Step 4 Push catches each side.

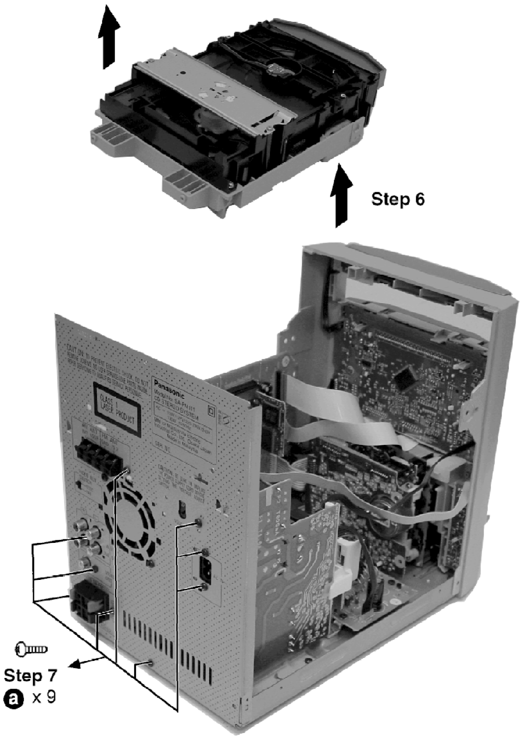

Catch
Catch
Step 3
a x 2

Step 5 Release the connectors CP100 and CP101.

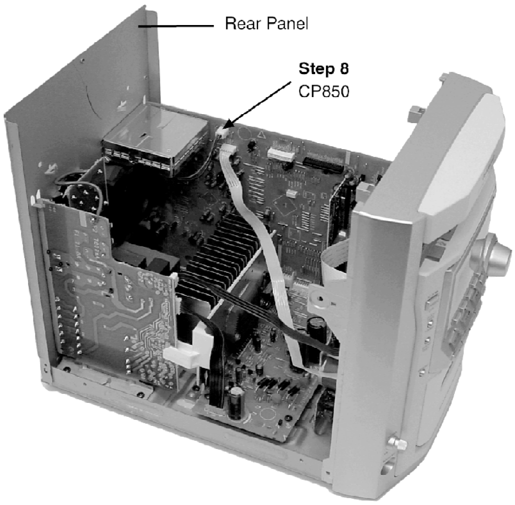

Step 5
CP100
Step 5
CP101

Step 6 Remove the CD changer base as arrow shown.

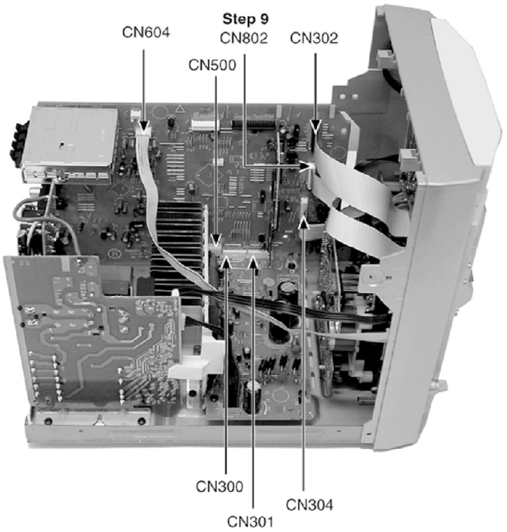
Step 7 Remove all the screws at rear panel.

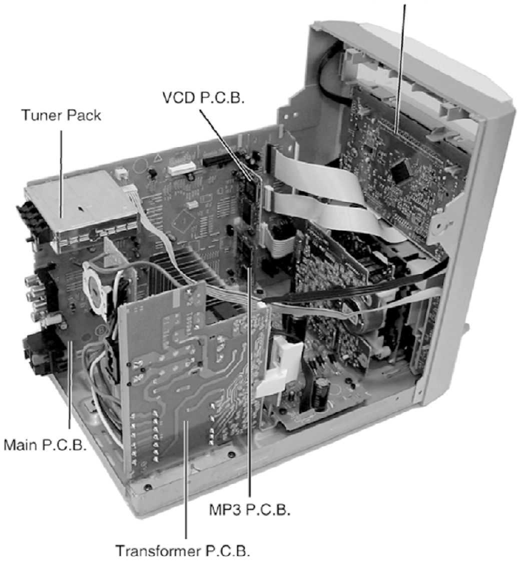

Step 6
Step 7
a x 9

Step 8 Release the connector CP805.

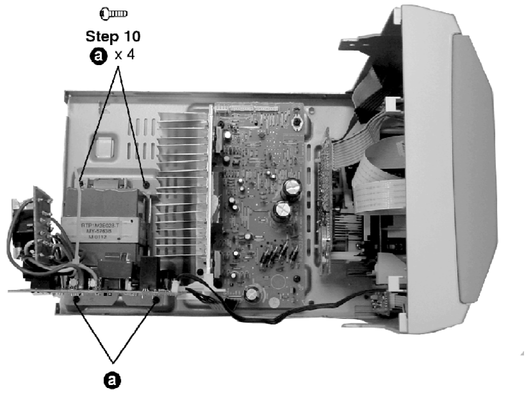

Rear Panel
Step 8
CP850

Step 9 Release the connectors CN300, CN301, CN302, CN304, CN500, CN801 and CN802.

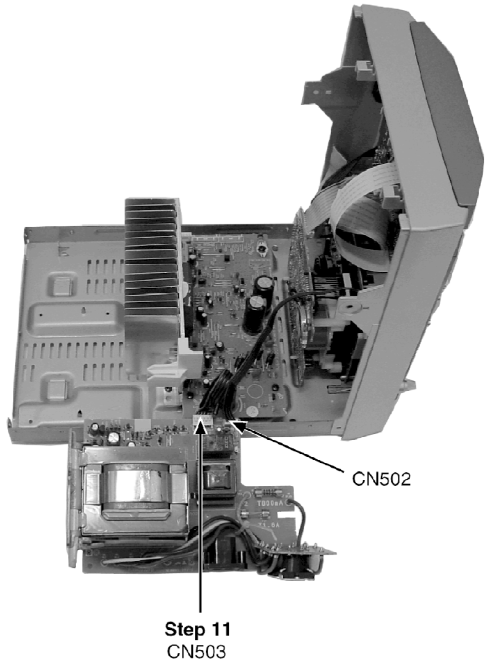

CN604
Step 9
CN802
CN302
CN500
CN300
CN301
CN304


Panel P.C.B.
VCD P.C.B.
Tuner Pack
Main P.C.B.
MP3 P.C.B.
Transformer P.C.B.

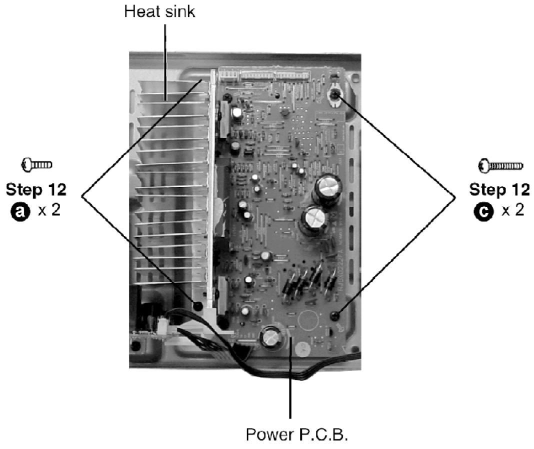
Step 10 Remove all the screws.


Step 10
a x 4
a

Step 11 Release the connectors CN502 and CN503.

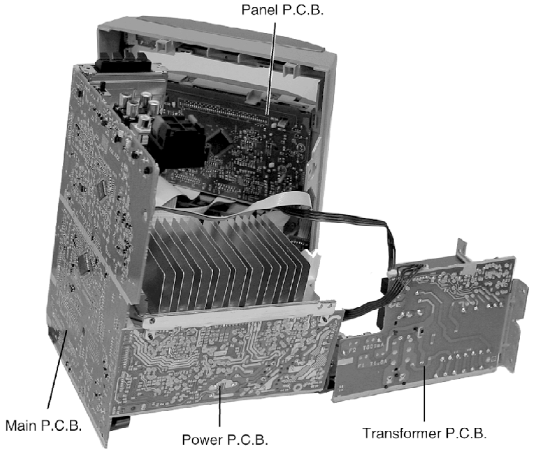

CN502
Step 11
CN503

Step 12 Remove all the screws.


Heat sink
Step 12
a x 2
Step 12
c x 2
Power P.C.B.

Step 13 By checking all the P.C.B. as shown, reconnect back all

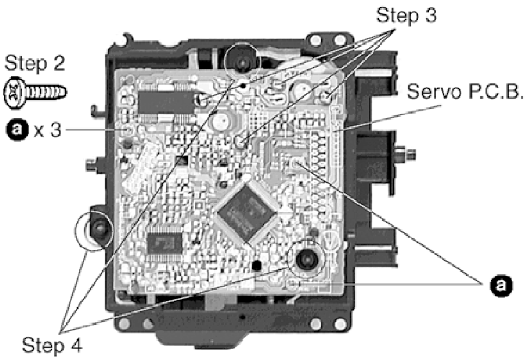
the connectors.

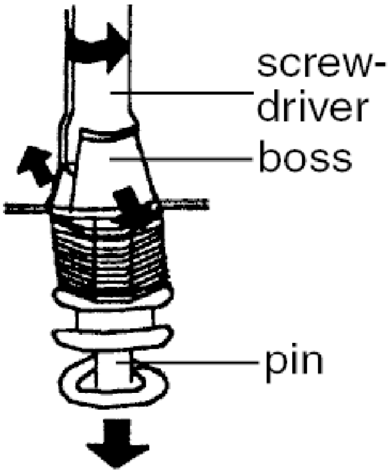

Panel P.C.B.
Main P.C.B.
Power P.C.B.
Transformer P.C.B.

8.2. Main Component Replacement Procedures

1. Replacement of the Traverse Deck

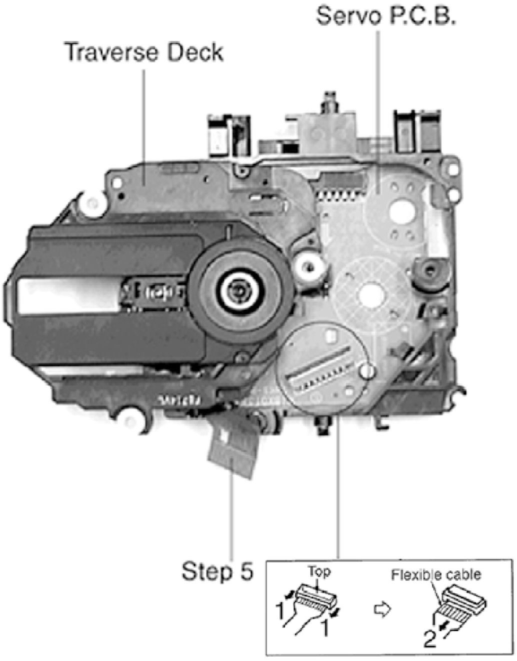
Step 1 Follow the procedures in ‘Disassembly of the Traverse Unit’ (Step 1 - Step 4)

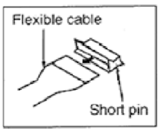

Step 3
Step 2
a x 3
Servo P.C.B.
a
Step 4


screw-driver
boss
pin

Step 3 Desolder the 4 legs of the 2 motors and pull out the Servo P.C.B.

Step 4 Widen the 3 bosses with a flat screwdriver and pull out the 3 pins. Then remove the Traverse Deck.


Servo P.C.B.
Traverse Deck
Step 5
Top
Flexible cable
1
1
2


Flexible cable
Short pin

Step 5 Remove the flexible cable CN 701.

- Removal of the flexible cable. Push the top of the connector in the direction of the arrow 1, and then pull out the flexible cable in the direction of the arrow 2.

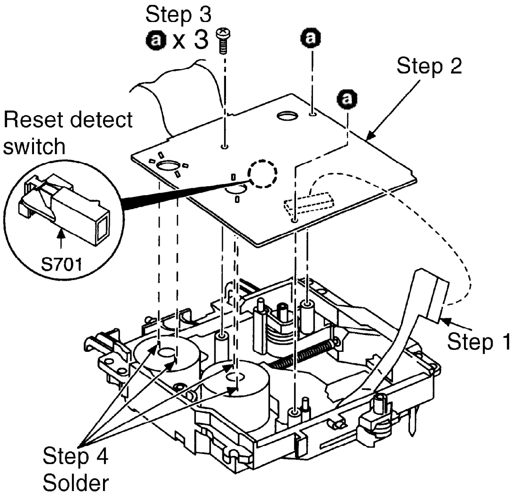
Note:

Insert a short pin into the flexible cable for traverse unit.

- Installation of the CD servo P.C.B. after replacement

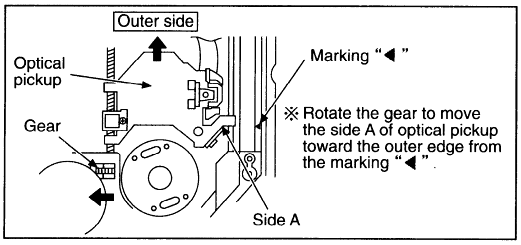
Step 1 Connect the FFC board.

Step 2 Install the CD servo P.C.B. in the traverse deck assembly.


Step 3
ⓐ x 3
ⓐ
Step 2
ⓐ
Reset detect switch
S701
Step 1
Step 4
Solder

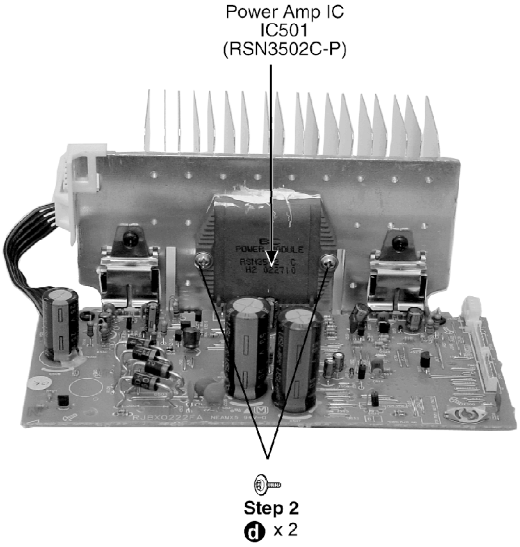
Note:

Before installing the CD servo P.C.B., move the optical pickup towards the outer edge from the marking (black triangle). [Otherwise, the reset detect switch (S701) mounted on the CD servo P.C.B. may be damaged.]

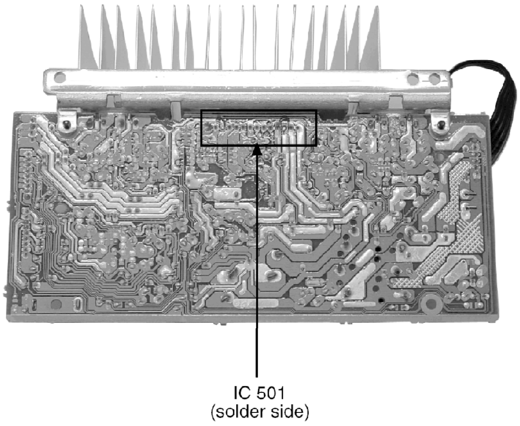

Outer side
Optical pickup
Gear
Marking "◀ "
※ Rotate the gear to move the side A of optical pickup toward the outer edge from the marking "◀ ".
Side A

2. Replacement of the Power Amplifier IC

Step 1 Follow the procedures in 'Checking Procedure for each major P.C.B.' (Step 1 - Step 12).


Power Amp IC
IC501
(RSN3502C-P)
Step 2
d x 2

Step 2 Remove 2 screws fixed to the Power Amplifier IC.


IC 501
(solder side)

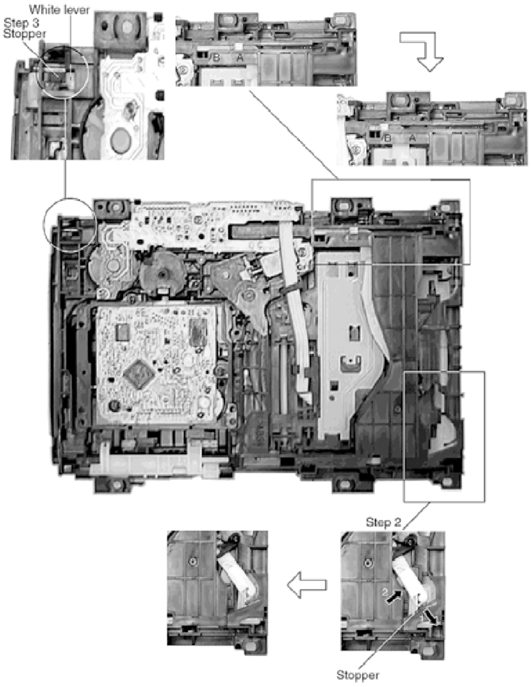
Step 3 Unsolder the terminals of Power Amp IC and replace the respective component.

8.3. Disassembly and assembly of the Traverse Unit

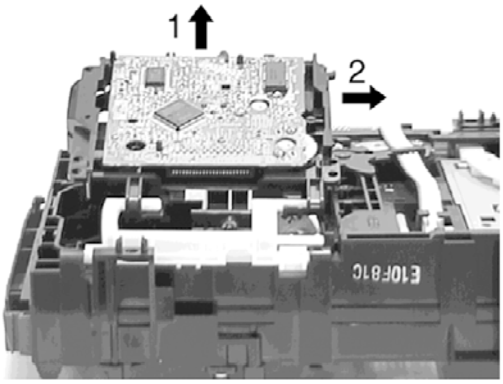
Step 1 Push the lever from position A to B.

Step 2 Pull the stopper (black) in the direction of arrow 1 and push the lever in the direction of arrow 2.

Step 3 Push the stopper (black) down until the white lever eject out.


White lever
Step 3
Stopper
B
A
B
A
Step 2
2
Stopper

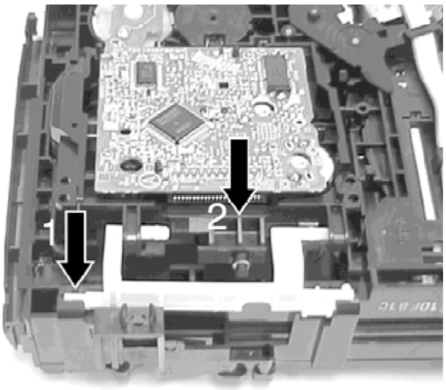
Step 4 Lift up the traverse unit and slide out the unit as shown.



- Replacement of Traverse Unit

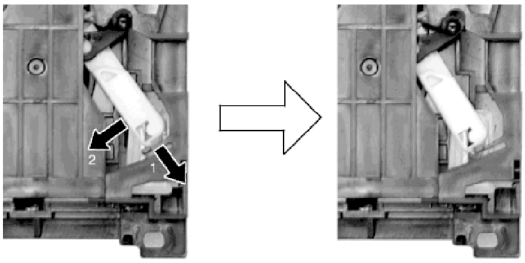
Step 1 Place the traverse unit as shown.

Step 2 Press in the lever shaft in the direction of arrow 1 as shown and push the traverse unit into the position in the direction of arrow 2.

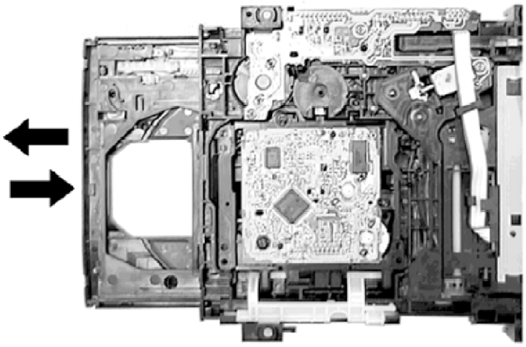


Step 3 Pull the stopper in the direction of arrow 1 and release the lever in the direction of arrow

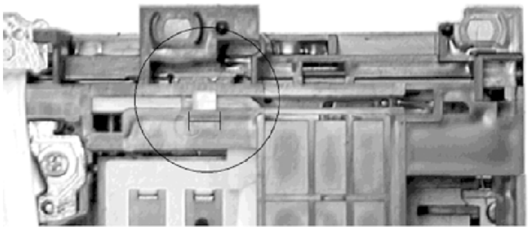
2 as shown.



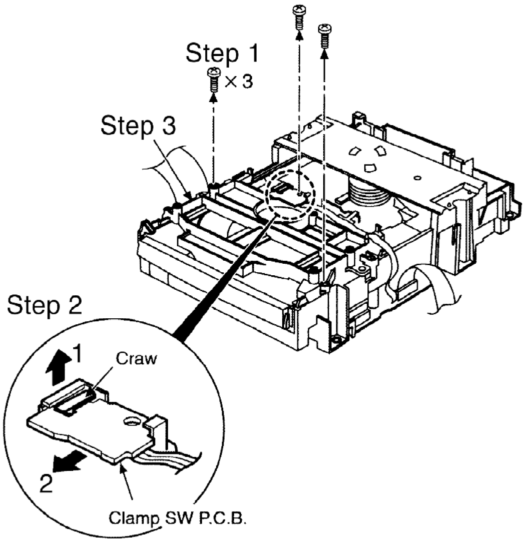
Step 4 Pull out the tray half way and push it back fully.



Step 5 Push the lever to the initial position indicated ‘I---I’.

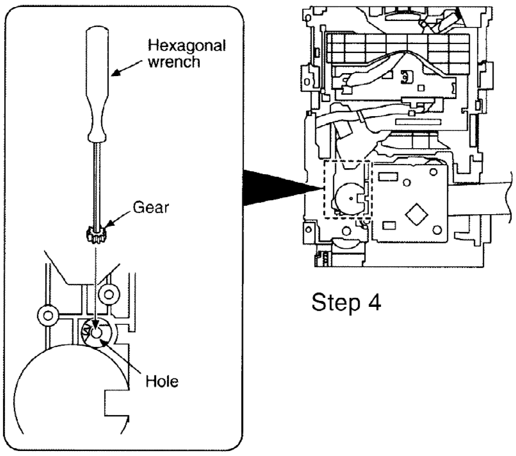


8.4. Disassembly and assembly of the Disc Tray

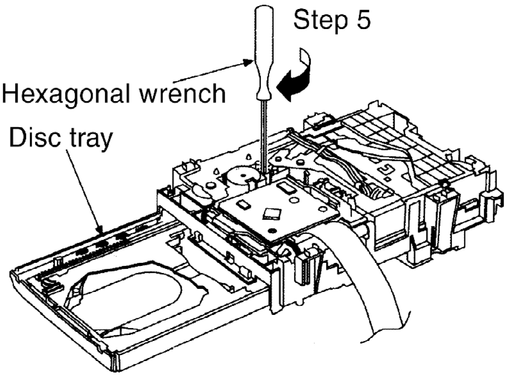

Step 1
×3
Step 3
Step 2
1
Craw
2
Clamp SW P.C.B.

Step 2 With lifting the claw in the direction of arrow 1, draw the clamp SW P.C.B. in the direction of arrow 2.

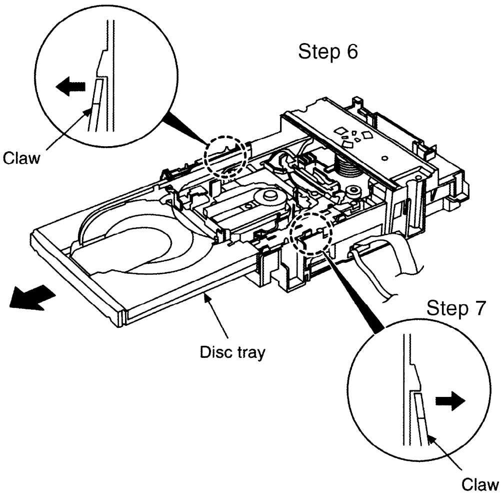
Step 3 Remove the mechanism cover.


Hexagonal wrench
Gear
Hole
Step 4

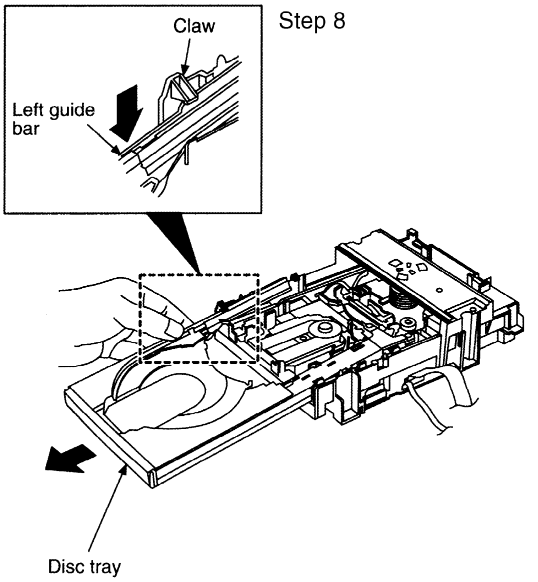
Step 4 Insert the gear with hexagonal wrench into the hole.


Step 5
Hexagonal wrench
Disc tray

Step 5 Rotate the hexagonal wrench in the direction of arrow (clockwise), and then open the disc tray fully.

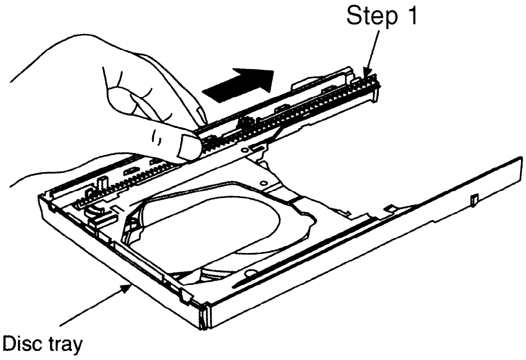

Step 6
Claw
Disc tray
Step 7
Claw

Step 6 Upset the CD changer unit again.
Step 7 Release both the claws, and then draw the disc tray.

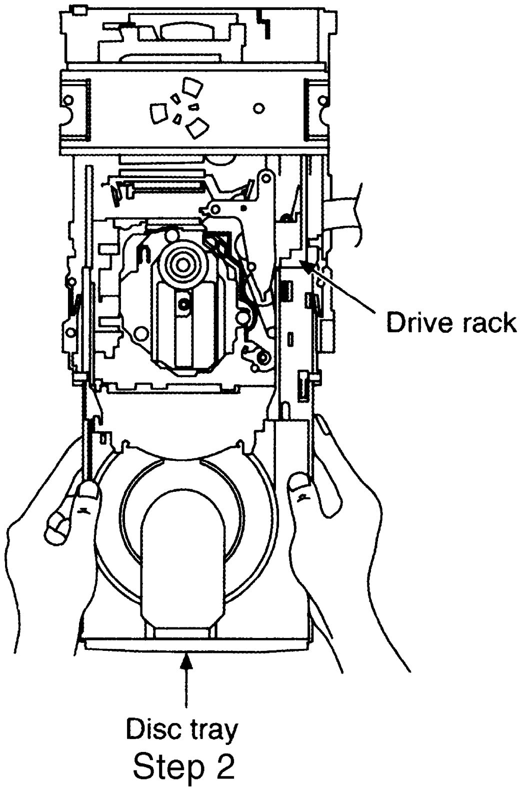

Step 8
Claw
Left guide bar
Disc tray

Step 8 With forcing the left guide bar manually because the left guide bar interfers with claw, draw the disc tray.

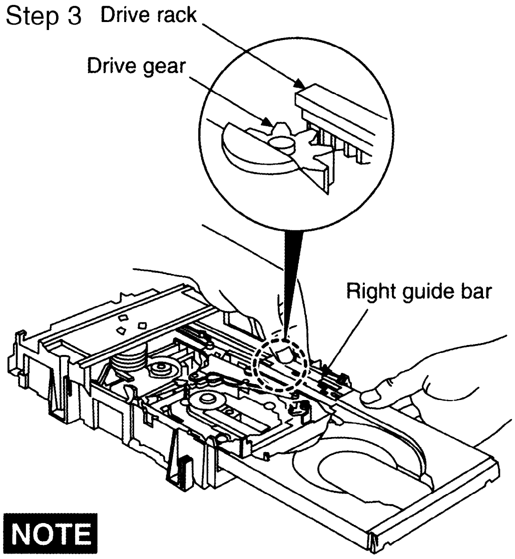
- Installation of the disc tray after replacement


Step 1
Disc tray

Step 1 Slide the drive rack fully in the direction of arrow.


Drive rack
Disc tray
Step 2

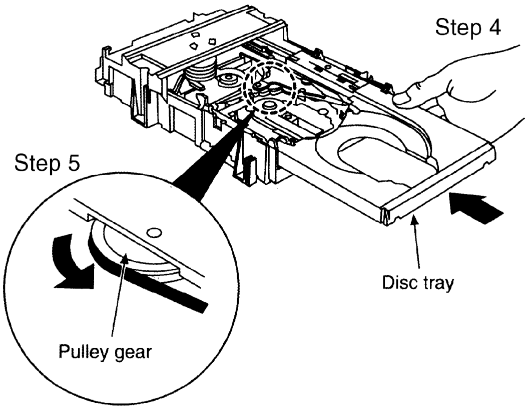
Step 2 Holding the drive rack not to move, install the disc tray.


Step 3
Drive rack
Drive gear
Right guide bar

NOTE

Force the right guide bar of tray base manually not to move upwards.

Step 3 Align the drive rack with the driver gear.



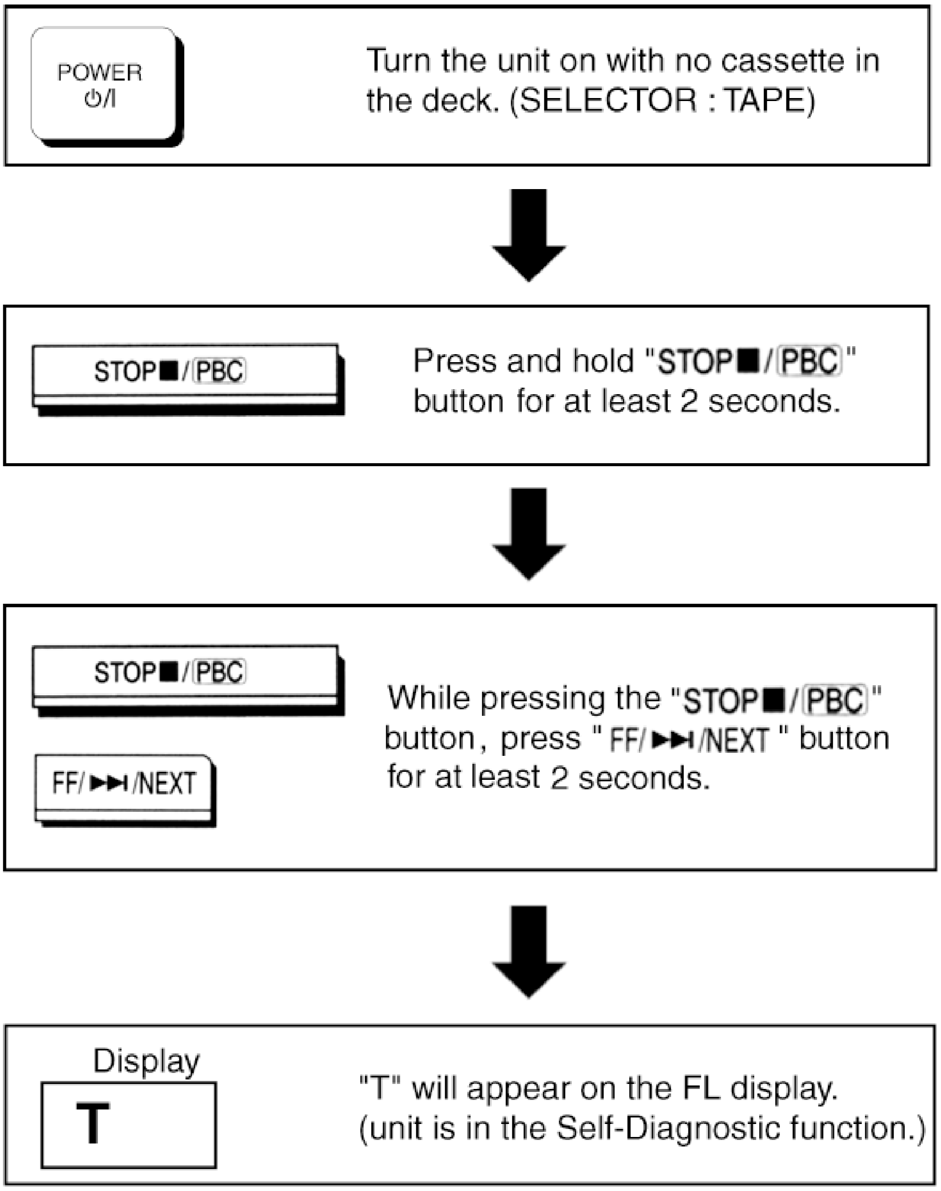
Step 4 Holding the disc tray manually, rotate the pulley gear in the direction of arrow.
Step 5 Rotate the gear 5 or 6 times manually, and then push the disc tray.

9. Self-Diagnostic Function

9.1. Self-diagnostic display

This unit is equipped with a self-diagnostic display function which, if problems occur, they shall be memorised as errors and there shall be no error display at the time of such occurrence. Error displays shall only be displayed in the self-diagnostic mode. See "How to enter Self Diagnostic Function".
Use this function when performing maintenance on the unit.

9.2. How to enter the Self-Diagnostic Function



Turn the unit on with no cassette in the deck. (SELECTOR : TAPE)

Press and hold "STOP■/PBC" button for at least 2 seconds.

While pressing the "STOP■/PBC" button, press " FF/⏭/NEXT " button for at least 2 seconds.

"T" will appear on the FL display.
(unit is in the Self-Diagnostic function.)

Press “STOP ■ ” to indicate error code.

- If several problems exist, error code will change each time when “STOP ■ ” is pressed.

9.3. Cassette Mechanism Test (For error code H01, H02, H03, F01, F02)

1. **Load a cassette tape with the erasure prevention tab, remove from left side only and close the cassette holder.**
2. **Press “FAST FORWARD” (Tape will be stop after 2 seconds)**
3. **Load a cassette tape with the erasure prevention tab, remove from right side only and close the cassette holder.**

4. Press “REVERSE” (Tape will be stop after 2 seconds)
5. Load a pre-recorded tape with both side record tabs intact and close the cassette holder.
6. Press “PLAY” (After TPS function, tape will stop automatically)
7. Press “REC/PAUSE” (Tape will not move)
8. Press “STOP ■ ” to indicate Error code.

- If several problems exist, error code will change each time when “STOP ■ ” is pressed.
  (e.g. H01 → H02 → H03 .....etc.)

9.4. To clear all Error code

1. Press “STOP/TUNE MODE” button for 5 seconds.
2. FL indicator shows “CLEAR” for 1 second and change to “T”.

9.5. How to get out from Self-Diagnostic function

1. Press “Power” button OFF.

9.6. Power Amplifier Failure (F61)

1. When power amplifier fail, F61 will indicate automatically.

10. Description of Error Code

10.1. Error detection for Cassette Mechanism block

No.	Error	Error Display	Problem condition
1	MODE SW detection error	H01	Faulty operation of cassette mechanism. Faulty contact or short-circuit of mechanism mo switch (S951, S971).
2	REC INH SW detection error	H02	Recording not possible. Faulty contact or short-circuit of REC INH switch (S974, S975).
3	HALF SW detection error	H03	Playback cannot perform. Faulty contact or short-circuit of HALF siwtch (S S972).
4	Reel Pulse detection error	F01	The tape advances slightly and then stops. Faulty reel pulse, faulty hole detect IC (IC951, IC9
5	TPS abnormal	F02	Cassette deck will not perform TPS function. Faulty playback EQ/recording amplifier IC (IC101

10.2. Error detection for CD/Changer block

No.	Error	Error Display	Problem condition
1	REST SW detection error	F15	CD does not function. This error occurs when the Optical Pick Up RES (S701) is not detected within the specified time (about 8 seco
2	CD tray opens automatically	F16	CLAMP switch (S4) NG (Check & Replace)
3	Does not startup when [PLAY] button is pressed	F17	BOTTOM switch (S5) NG (Check & Replace)
4	Transmission error between CD servo LSI and micon	F26	CD does not function. This error occurs when the POWER is ON for th block and an error is detected after the transmis has started.
5	Startup fails even when you insert CD or the selected disc tray does not open	F27	Tray 1 detect switch or Tray 2 detect switch NG & Replace)
6	Cannot insert CD	F28	Tray 1 detect switch NG (Check & Replace)
7	Cannot eject CD	F29	Check if disc is stuck. Tray 2 detect switch NG (Confirm & Replace)
8	The CD tray closes	H15	CD disc tray detect switch NG (S3) (Check & Re

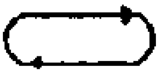
10.3. Power Supply related error detection

No.	Error	Error Display	Problem condition
1	POWER AMP output abnormal	F61	When POWER is switched on, power become of automatically. During normal operation, if DC DET become L, P shall become L and the error display on the left shall be displa (IC501)

11. Measurements and Adjustments

11.1. Cassette Deck Section

- Measurement Condition

- Reverse-mode selector switch: 
- Tape edit: NORMAL
- Record timer: OFF

- Make sure head, capstan and press roller are clean.
- Judgeable room temperature 20 ± 5 °C (68 ± 9°F)
- Measuring instrument
- EVM (Electronic Voltmeter)
- Digital frequency counter
- Test Tape
- Head azimuth adjustment (8 kHz, -20 dB); QZZCFM
- Tape speed gain adjustment (3 kHz, -10 dB); QZZCWAT
- Playback gain adjustment (315 Hz, 0 dB); QZZCFM
- CrO2 tape, QZZCRX

11.1.1. Head Azimuth Adjustment

Note :

If you wish to readjust the head azimuth, be sure to adjust with adhering the casette tape closely to the mechanism by pushing the center of cassette tape with your finger. (Shown in Fig. 1)

1. **Connect the measuring instrument as shown in Fig. 2.**
2. **Replace azimuth screws for both forward and reverse direction after removing the screw-locking bond left on the head base.**
3. **Playback the azimuth adjustment portion(8kHz, -20dB) of test tape(QZZCFM). Adjust the azimuth adjusting screw until the outputs of the L/Rch are maximized. (Refer to Fig. 3)**
   Make sure that the difference in the peak level between the left and right channels does not exceed 5dB.
4. **Perform the same adjustment in reverse playback mode.**
   Check of the level difference forward and reverse directions
5. **Playback the playback gain adjustment portion(315Hz, 0dB) of test tape(QZZCFM). Check if level difference between forward and reverse direction is within 1.5dB.**
6. **After the adjustment, apply screwlock to the azimuth adjusting screw.**

Fig. 1

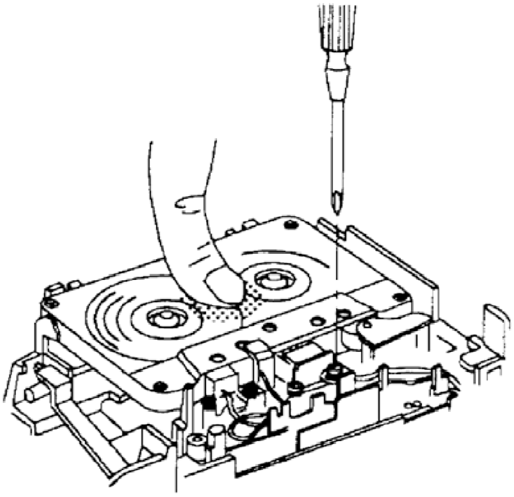


Fig. 2

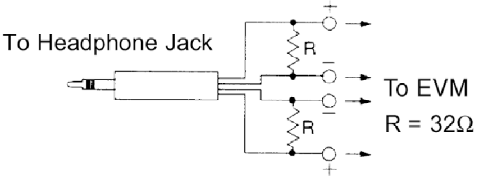
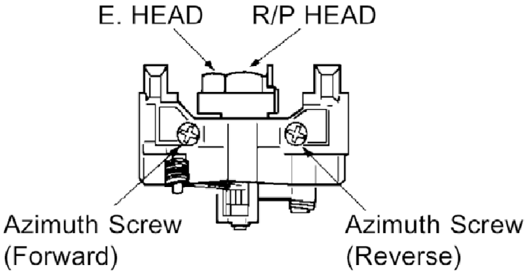

To Headphone Jack
+
R
−
−
R
+
To EVM
R = 32Ω

Fig. 3


E. HEAD
R/P HEAD
Azimuth Screw
(Forward)
Azimuth Screw
(Reverse)

11.1.2. Tape Speed Adjustment (Deck)

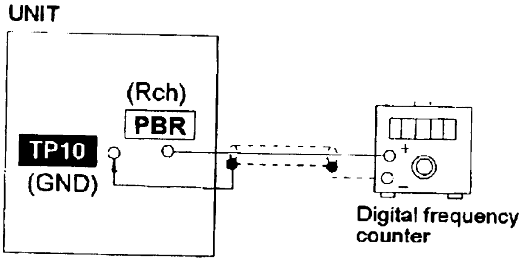
1. Set the tape edit button to “NORMAL” position.

2. Insert the test tape (QZZCWAT) to DECK and playback (FWD side) the middle portion of it.

3. Adjust Motor VR for the output value shown below.

Adjustment target: 2940 ~ 3060 Hz
(NORMAL speed)

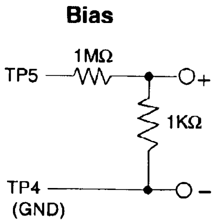
4. After alignment, assure that the output frequency of the DECK REV is within ±60 Hz respectively of the value of the output frequency of DECK FWD.

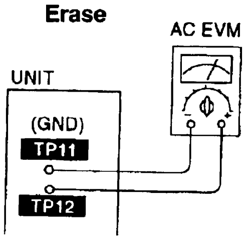

UNIT
(Rch)
PBR
TP10
(GND)
+
C
Digital frequency counter

11.1.3. Bias and Erase Voltage Check

1. Set the unit "AUX" position.
2. Insert the Normal blank tape (QZZCRA) into DECK and the unit to "REC" mode (use " ● REC/PAUSE" key).
3. Measure and make sure that the output is within the standard value.
4. Insert the Cr02 tape(QZZCRX).
5. Repeat steps 2 and 3.

Bias voltage	14 ± 4mV (Normal)
	17 ± 5mV (Cr02)
Erase voltage for Deck 2	more than 80mV (Normal)
	more than 90mV (Cr02)

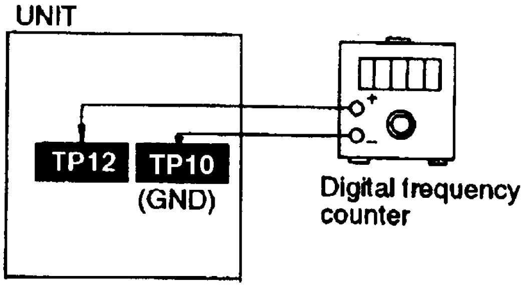

Bias
1MΩ
TP5
+
1KΩ
TP4
(GND)
-


Erase
AC EVM
UNIT
(GND)
TP11
TP12

11.1.4. Bias Frequency Adjustment

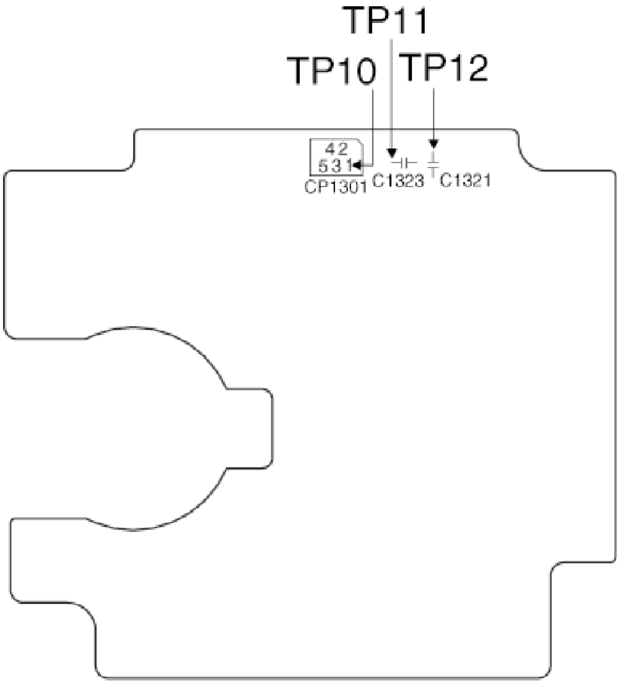
1. Set the unit to "AUX" position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and set the unit to "REC" mode (● use "REC/PAUSE" key).
3. Adjust L1301 so that the output frequency is within the standard value.

Standard Value: 97 ±8 kHz


UNIT
TP12
TP10
(GND)
Digital frequency counter
+
–

11.2. Alignment Points

Cassette Deck Section


TP11
TP10
TP12
4 2
5 3 1
CP1301
C1323
C1321

12. Illustration of IC’s, Transistors and Diodes

13. Terminal Function of IC’s

13.1. IC701 (AN8885SBE1) Servo Amplifier

Pin No.	Mark	I/O	Function
1	PDE	I	Tracking signal input 1
2	PDF	I	Tracking signal input 2
3	VCC	I	Power supply
4	PDA	I	Focus signal input terminal 1
5	PDB	I	Focus signal input terminal 2
6	LPD	I	APC amp input
7	LD	O	APC amp output
8	RF	O	RFsumming output
9	RFIN	I	Detector’s input
10	CSBRT	I	Capacitor for OFTR connection
11	CEA	I	Capacitor for HPF amp connection
12	BDO	O	BDO output (“H” : drop out)
13	LDON	I	APC control
14	GND	—	Ground
15	/RFDET	O	NRFDET output (“L” : detection)
16	PDOWN	O	Power-down input
17	OFTR	O	OFTR output
18	NC	O	N.C.
19	ENV	O	3T-ENV output
20	NC	I	N.C.
21	NC	I	N.C.
22	TEN	I	TE amp input
23	TEOUT	O	TE amp output
24	FEOUT	O	FE amp output
25	FEN	I	FE amp input
26	VREF	O	Reference voltage output
27	TBAL	I	Tracking balance control
28	FBAL	I	Focus balance control

13.2. IC702 (MN662790RSC) Servo processor/ Digital signal processor/ Digital filter/ D/A converter

No.	Mark	I/O	Function
1	BCLK	O	N.C.
2	LRCK	O	N.C.
3	SRDATA	O	N.C.
4	DVDD1	I	Power supply input (for digital circuit)
5	DVSS1	I	GND (for digital circuit)
6	TX	O	Digital audio interface signal output (Latches data at first transition)
7	MCLK	I	Microprocessor command clock signal input
8	MDATA	I	Microprocessor command data signal input
9	MLD	I	Microprocessor command load signal input
10	SENSE	O	Sense signal output (OFT, FESL, MAGEND, NAJEND, POSAD, SFG) (Not used, open)
11	/FLOCK	O	Focus servo feeding signal output (“L” : Feed)
12	/TLOCK	O	Tracking servo feeding signal output (“L” : Feed)
13	BLKCK	O	Sub-code block clock signal output (BLKCKf = 75Hz during normal playback)
14	SQCK	I	External clock signal input for sub-code Q resistor
15	SUBQ	O	Sub-code Q code output
16	DMUTE	I	Muting input (“H” : mute)
17	STAT	O	Status signal output (CRC, CUE, CLVS, TTSTVP, FCLV, SOCK)

			SQCK)

No.	Mark	I/O	Function
18	/RST	I	Reset signal input
19	SMCK	O	1/2-diveded clock signal of crystal osscillating at MSEL = “H” (fSMCK = 8.4672 MHz) 1/4-divided clock signal of crystal oscillating at MSEL = “L” (fSMCK = 4.2336 MHz)
20	CSEL	I	Frequency Selection Terminal H = 33.8688 MHz ; L = 16.9344 MHz
21	TRV	O	N.C
22	TVD	O	Traverse drive output
23	PC	O	Spindle motor ON output ("L" : ON)
24	ECM	O	Spindle motor drive signal output(forced mode output)
25	ECS	O	Spindle motor drive signal output (servo error signal output)
26	KICK	O	N.C.
27	TRD	O	Tracking drive output
28	FOD	O	Focus drive output
29	VREF	I	D/A (drive) output (TVD, ECS, TRD, FOD, FBAL, TBAL) Reference voltage input
30	FBAL	O	Focus balance adjustment output
31	TBAL	O	Tracking balance adjustment output
32	FE	I	Focus error signal input (analog input)
33	TE	I	Tracking error signal input (analog input)
34	RFENV	I	RF envelope signal input
35	VDET	I	Vibration detection signal input ("H" : detection)
36	OFT	I	Off-track signal input ("H" : off track)

No.	Mark	I/O	Function
37	TRCRS	I	Track cross signal input
38	/RFDET	I	RF detection signal input ("L" : detection)
39	BDO	I	Dropout signal input ("H" : Dropout)
40	LDON	O	Laser on signal output ("H" : ON)
41	PLLF2	I/O	N.C.
42	DSLF2	O	Tracking Offset alignment output/DSL Balance Output (DA Output)
43	WVEL	O	N.C.
44	ARF	I	RF signal input
45	IREF	I	Reference current input
46	DRF	I	DSL bias terminal (Not used, open)
47	DSLF	I/O	DSL loop filter terminal
48	PLLF	I/O	PLL loop filter terminal
49	VCOF	I/O	VCO loop filter terminal
50	AVDD2	I	Power supply input (for analog circuit)
51	AVSS2	I	GND (for analog circuit)
52	EFM	-	EFM signal output
53	PCK	-	PLL extraction clock output (fPCK = 4.321 MHz during normal playback)
54	VCOF2	I/O	VCO Loop filter for 33.8688 MHz conversation terminal for 16.9344 MHz crystal mode, must use other circuit
55	SUBC	O	Sub-code serial data output
56	SBCK	I	Clock input for sub-code serial data
57	VSS	I	GND

No.	Mark	I/O	Function
58	X1 IN	I	Crystal oscillating circuit input (f = 16.9344MHz)
59	X2 OUT	O	Crystal oscillating circuit input (f = 16.9344 MHz)
60	VDD	I	Power supply input (for oscillating circuit)
61	BYTCK	-	Byte clock output
62	/CLDCK	-	Sub-code frame clock signal output (fCLDCK = 7.35 kHz during normal playback)
63	FCLK	-	Crystal frame clock signal output (fCLK = 7.35 kHz, double = 14.7 kHz)
64	IPFLAG	-	Interpolation flag output (“H” : Interpolation)
65	FLAG	-	Flag output
66	CLVS	-	Spindle servo phase synchronizing signal output ("H" : CLV, "L" : rough servo)
67	CRC	-	Sub-code CRC checked output (“H’ : OK, “L” :NG)
68	DEMPH	-	De-emphassis ON signal output (“H” : ON)
69	RESY	-	Frame re-synchronizing signal output
70	IOSEL	I	Mode Switching Terminal
71	/TEST	I	Test input
72	AVDD1	I	Power supply input (for analog circuit)
73	OUTL	O	Left channel audio signal output
74	AVSS1	I	GND
75	OUTR	O	Right channel audio signal output

No.	Mark	I/O	Function
76	RSEL	I	RF signal polarity assignment input (at "H" level, RSEL="H", at "L" level, RESL= "L")
77	IOVOD	I	5V supply input
78	PSEL	I	Test terminal (connected to Gnd)
79	MSEL	I	SMCK oscillating frequency designation input (“L” :4.2336 MHz, “H”: 8.4672 MHz)
80	SSEL	I	SUBQ output mode select (“H”:Q-code buffer mode)

13.3. IC703 (AN8739SBE2) Focus coil/ Tracking coil/ Traverse motor/ Spindle motor driver

No.	Mark	I/O	Function
1	/RST	-	RESET output terminal
2	NC	-	N.C.
3	IN2	I	Motor Drive (2) input
4	PC2	I	Turntable motor drive signal (“L :ON)
5	NC	-	N.C.
6	IN1	I	Motor driver (1) input
7	NC	I	N.C.
8	PVCC1	I	Power supply (1) for driver
9	PGND1	-	Ground connection (1) for driver
10	NC	-	N.C.
11	D1-	O	Motor driver (1) reverse-action output
12	D1+	O	Motor driver (1) forward-action output
13	D2-	O	Motor driver (2) reverse-action output
14	D2+	O	Motor driver (2) forward-action output
15	D3-	O	Motor driver (3) reverse-action output
16	D3+	O	Motor driver (3) forward-action output

No.	Mark	I/O	Function
17	D4-	O	Motor driver (4) reverse-action output
18	D4+	O	Motor driver (4) forward-action output
19	NC	-	N.C.
20	PGND2	-	Ground connection (2) for driver
21	PVCC2	I	Power supply (2) for driver
22	NC	-	N.C.
23	VCC	I	Power supply terminal
24	VREF	I	Reference voltage input
25	IN4	I	Motor driver (4) input
26	IN3	I	Motor driver (3) input
27	RSTIN	I	Reset terminal
28	NC	-	N.C.

13.4. IC600 (M38258MCM169) System Microprocessor

No.	Mark	I/O	Function
1	N.C.	-	Open
2	VL1	-	LCD Bias
3	REG_IN	A-D I	Region and function setting
4	DECK_AD1	A-D I	Tape mecha condition input (HALF / MODE/ RECIN_R / RECIN_F)
5	DECK_AD2	A-D I	Tape mecha condition input (TPS, PHOTO)
6	KEY 1	A-D I	Key 1 input
7	KEY 2	A-D I	Key 2 input
8	KEY 3	A-D I	Key 3 input
9	CHG_AD1	A-D I	Changer condition input
10	CHG_AD2	A-D I	Changer condition input
11	EECS	I/O	EEPROM chip select output
12	EEDAT/ ASP_DATA	I/O	EEPROM data input / ASP control data output
13	EECLK/ ASP_CLK	I/O	EECLOCK output / ASP control clock output

No.	Mark	I/O	Function
14	ASP_ LATCH	O	ASP control latch output
15	PLLCE	O	Tuner PLL chip enable
16	PLLDA	O	Tuner PLL data output
17	PLLCLK	O	Tuner PLL data output
18	MM_REQ	O	Mechacon request output
19	MM_CS	I	Chip select from mechacon
20	MM_CLK	I	Clock input from mechacon
21	MM_DOUT	O	Data output to mechacon
22	MM_DIN	I	Data input from mechacon
23	RMT	I	Remote control input
24	SYNC	I	AC failure detect input
25	PLED	O	Primary relay control
26	PCONT	O	Secondary relay control output
27	MM_RST	O	Mechacon reset control output
28	ST/DO	I	Tuner if data/stereo input
29	SD	I	Tuner signal detect input
30	SER_CLK	O	Serial output clock
31	SER_DATA	O	Serial output data
32	N.C.	O	No connection
33	DCDET 1	I	DC Detect input 1
34	DCDET 2	I	DC Detect input 2
35	RESET	-	RESET input
36	XCIN	-	32.768 kHz sub clock
37	XCOUT	-	32.768 kHz sub clock
38	XIN	-	8.0 MHz main clock
39	XOUT	-	8.0 MHz main clock
40	VSS	-	Ground (0V)
41	MBP1	O	MPU beat proof output 1
42	MBP 2	O	MPU beat proof output 2
43	N.C.	I	No connection

No.	Mark	I/O	Function
44	N.C.	I	No connection
45	ECHO2	O	ECHO output 2
46	ECHO1	O	ECHO output 1
47	ECHO_ON	O	ECHO_ON output
48	SEL(141/ 111)	I	Selector input (H= PM141)
49	VJOG_B	I	Main volume jog input B
50	VJOG_A	I	Main volume jog input A
51	SEG39	O	Segment drive output
52	SEG38	O	Segment drive output
53	SEG37	O	Segment drive output
54	SEG36	O	Segment drive output
55	SEG35	O	Segment drive output
56-90	SEG34-SEG0	O	Segment drive output
91	VCC	-	Power supply (+5V)
92	VREF	-	Reference for A-D
93	AVSS	-	Analog ground (0V)
94	COM3	-	LCD common 3 output
95	COM2	-	LCD common 2 output
96	COM1	-	LCD common 1 output
97	COM0	-	LCD common 0 output
98	VL3	-	LCD Bias
99	VL2	-	LCD Bias
100	N.C.	-	OPEN

14. Block Diagram

15. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)

Note:

S501	**Switch**
S601	**Power switch**
S602	**Clock/Timer switch**
S603	**Rec/Play/Demo switch**
S604	**Disc 1 switch**
S605	**Disc 2 switch**
S606	**Disc 3 switch**
S607	**Disc 4 switch**
S608	**Disc 5 switch**
S609	**Karaoke switch**
S610	**Tuner / Band switch**
S611	**Play select switch**
S612	**CD Pause switch**
S613	**Selector switch**
S614	**Tune Mode switch**
S615	**Tune UP/FF switch**
S616	**Stop switch**
S617	**Tune Down/REW switch**
S618	**CD Open/Close switch**
S619	**CD Manager switch**
S620	**Super Sound EQ switch**
S621	**Sound EQ switch**
S622	**Tape eject switch**
S623	**REW Mode switch**
S624	**REC/Stop switch**
S701	**Rest switch**
S971	**Mode switch**
S972	**Leaf switch**
S973	**Leaf switch**
S974	**Leaf switch**
S975	**Leaf switch**
SW1, SW2	**Slide switch**
SW3	**Switch**
SW4	**Switch**
SW5	**Lower switch**
SW710	**BP switch**
VR600	**Volume Jog control**
VR601	**MIC Jog Vr**

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the

internal impedance of the tester or the measuring unit.

No mark	**: Playback**	**<< >>**	**: Rec**	**< >**	**: FM**
(( ))	**: CD**	**( )**	**: AM**	**[ ]**	**: AUX**

- Importance safety notice :

Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution !

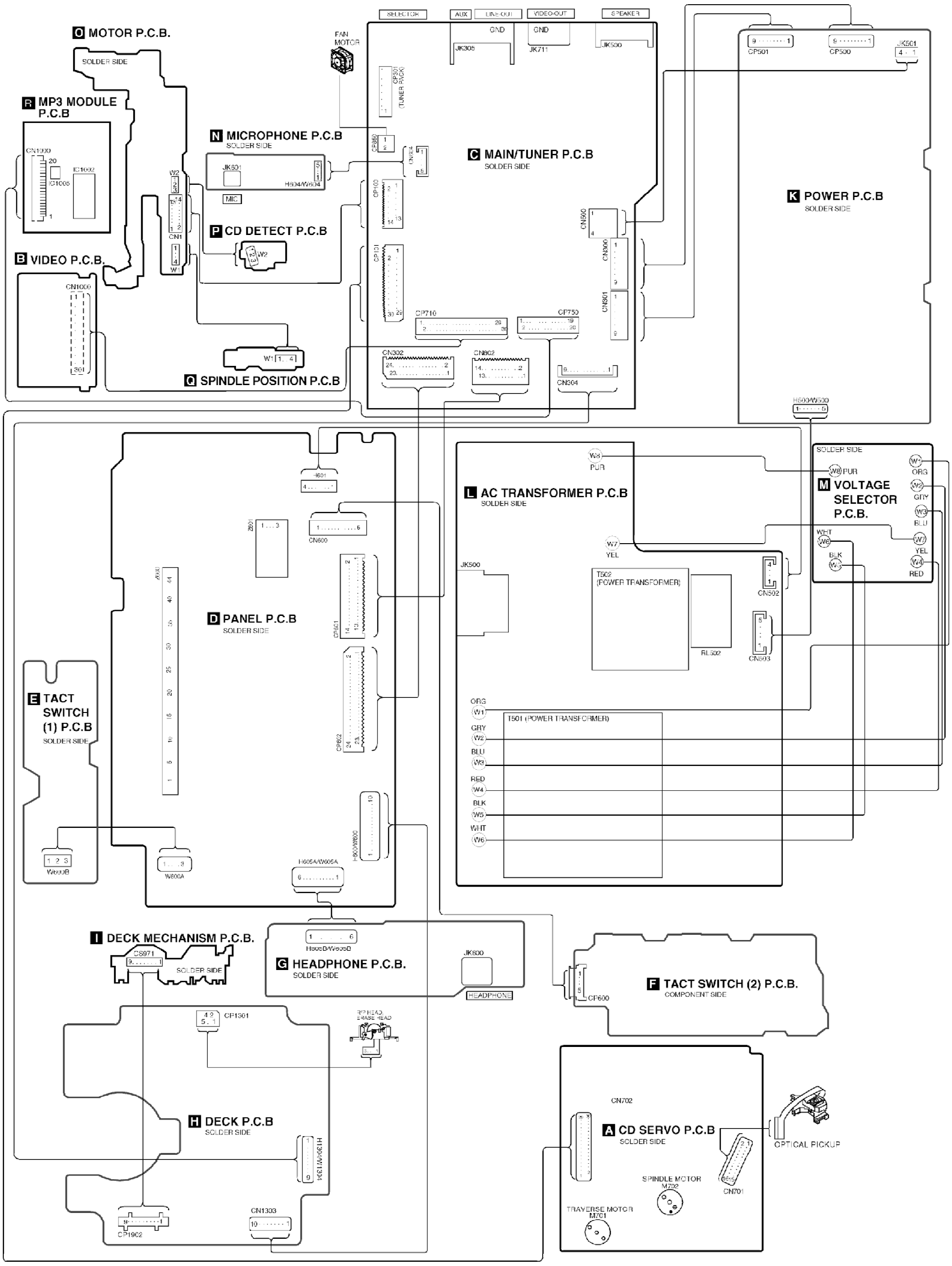
IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

- **Cover the parts boxes made of plastics with aluminium foil.**
- **Put a conductive mat on the work table.**
- **Ground the soldering iron.**
- **Do not touch the pins of IC, LSI or VLSI with fingers directly.**

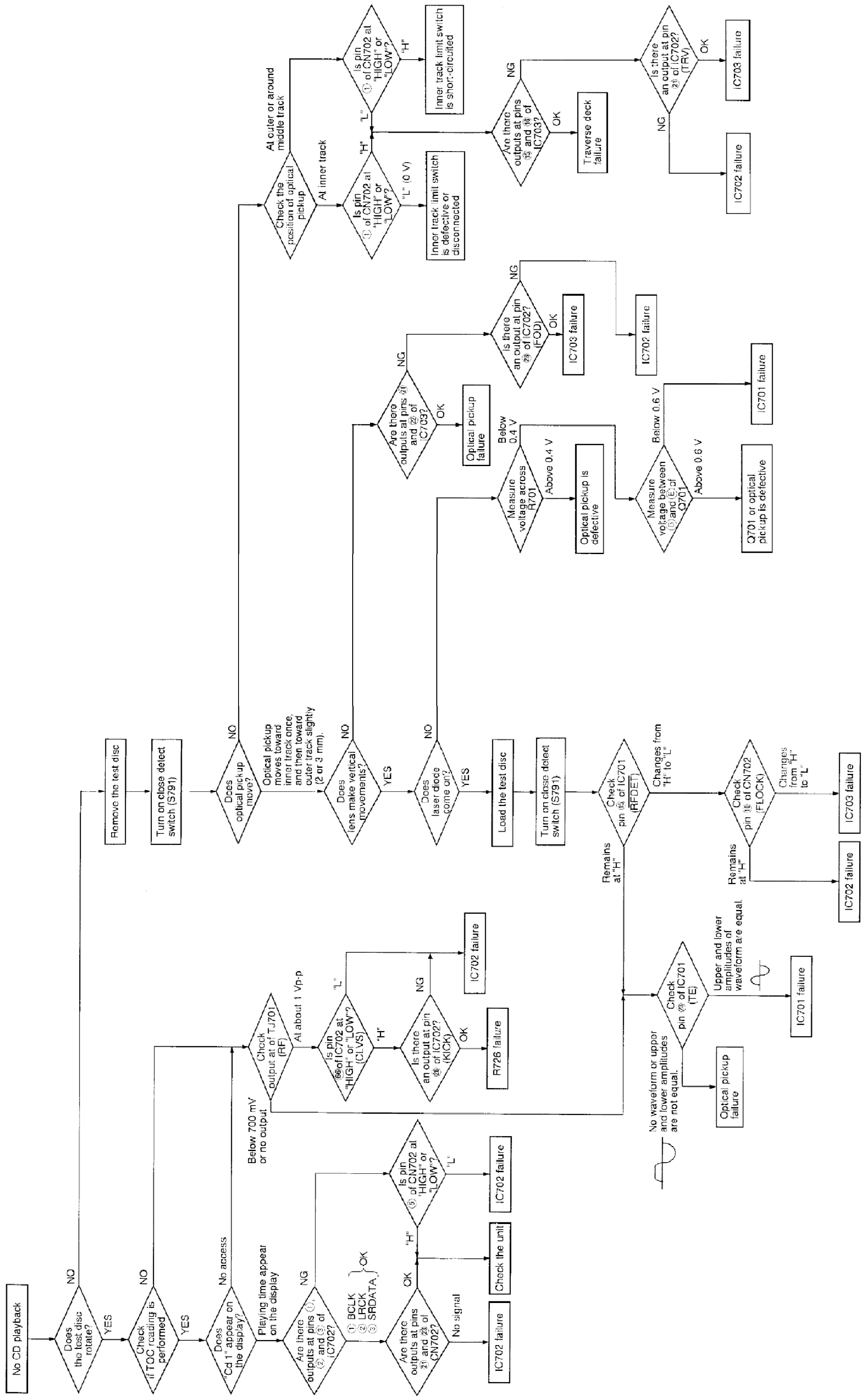
16. Printed Circuit Board

Note: Circuit board diagrams may be modified at any time with the development of new technology.

17. Wiring Connection Diagram


O MOTOR P.C.B.
SOLDER SIDE
R MP3 MODULE P.C.B
CN1000
IC1000
IC1006
FAN MOTOR
N MICROPHONE P.C.B
SOLDER SIDE
JK601
MIC
P CD DETECT P.C.B
B VIDEO P.C.B.
CN1000
Q SPINDLE POSITION P.C.B
SELECTOR
AUX
LINE OUT
VIDEO OUT
SPEAKER
GND
JK306
JK711
JK500
C MAIN/TUNER P.C.B
SOLDER SIDE
CP710
CP750
CN302
CN802
CN804
CN600
CN900
CN901
K POWER P.C.B
SOLDER SIDE
CP501
CP500
JK501
D PANEL P.C.B
SOLDER SIDE
CN600
CP601
CP602
E TACT SWITCH (1) P.C.B
SOLDER SIDE
W600B
W600A
L AC TRANSFORMER P.C.B
SOLDER SIDE
JK500
T502 (POWER TRANSFORMER)
RL502
CN502
CN503
T501 (POWER TRANSFORMER)
ORG
GRY
BLU
RED
BLK
WHT
PUR
YEL
M VOLTAGE SELECTOR P.C.B.
SOLDER SIDE
I DECK MECHANISM P.C.B.
CS971
SOLDER SIDE
G HEADPHONE P.C.B.
SOLDER SIDE
JK600
HEADPHONE
F TACT SWITCH (2) P.C.B.
COMPONENT SIDE
CP600
CP1501
R/P HEAD
ERASE HEAD
H DECK P.C.B
SOLDER SIDE
CP1902
CN1303
A CD SERVO P.C.B
SOLDER SIDE
CN702
CN701
OPTICAL PICKUP
SPINDLE MOTOR
M702
TRAVERSE MOTOR
M701

18. Troubleshooting Guide


No CD playback
Does the test disc rotate?
NO
YES
Remove the test disc
Turn on close detect switch (S791)
Does optical pickup move?
NO
Optical pickup moves toward inner track once, and then toward outer track slightly (2 or 3 mm).
Does lens make vertical movements?
NO
YES
Does laser diode come on?
NO
YES
Load the test disc
Turn on close detect switch (S791)
Check pin ⑯ of IC701 (RFDET)
Changes from "H" to "L"
Remains at "H"
Check pin ⑯ of CN702 (FLOCK)
Changes from "H" to "L"
IC703 failure
Remains at "H"
IC702 failure
Check pin ⑳ of IC701 (TE)
Upper and lower amplitudes of waveform are equal.
IC701 failure
No waveform or upper and lower amplitudes are not equal.
Optical pickup failure
Check if TOC reading is performed
NO
YES
Does "Cd 1" appear on the display?
No access
Playing time appear on the display
Check output at of TJ701 (RF)
Below 700 mV or no output
At about 1 Vp-p
Is pin ㊻ of IC702 at "HIGH" or "LOW"? (CLVS)
"L"
IC702 failure
"H"
Is there an output at pin ㉘ of IC702? (KICK)
NG
OK
R726 failure
Are there outputs at pins ①, ② and ③ of IC702?
NG
① BCLK
② LRCK
③ SRDATA
OK
Are there outputs at pins ㉑ and ㉓ of CN702?
No signal
IC702 failure
OK
Check the unit
Is pin ⑤ of CN702 at "HIGH" or "LOW"?
"L"
IC702 failure
"H"
Check the position of optical pickup
At outer or around middle track
At inner track
Is pin ① of CN702 at "HIGH" or "LOW"?
"H"
Inner track limit switch is short-circuited
"L"
Is pin ① of CN702 at "HIGH" or "LOW"?
"L" (0 V)
Inner track limit switch is defective or disconnected
"H"
Are there outputs at pins ⑲ and ⑯ of IC703?
OK
Traverse deck failure
NG
Is there an output at pin ㉑ of IC702? (TRV)
OK
IC703 failure
NG
IC702 failure
Are there outputs at pins ㉑ and ㉒ of IC703?
OK
Optical pickup failure
NG
Is there an output at pin ㉙ of IC702? (FOD)
OK
IC703 failure
NG
IC702 failure
Measure voltage across R701
Above 0.4 V
Optical pickup is defective
Below 0.4 V
Measure voltage between Ⓑ and Ⓔ of Q701
Below 0.6 V
IC701 failure
Above 0.6 V
Q701 or optical pickup is defective

19. Parts Location and Replacement Parts List

Notes:

- Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.

When replacing any of these components, be sure to use only manufacturer’s specified parts shown in the parts list.

- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)

Parts without these indications can be used for all areas.

- Warning: This product uses a laser diode. Refer to caution statements “Precaution of Laser Diode”.

ACTUNG:

- Die Lasereinheit nicht zerlegen.

- Die Lasereinheit darf nur gegen eine vom Hertsteller spezifizierte Einheit ausgetauscht werden.

- Capacitor values are in microfarads (μ F) unless specified otherwise, P= Pico-farads (pF), F= Farads.

- Resistance values are in ohms, unless specified otherwise, 1K= 1,000 (OHM).

- The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

- [M] Indicates in the Remarks columns indicates parts supplied by MESA.

- The “(SF)” mark denotes the standard part.

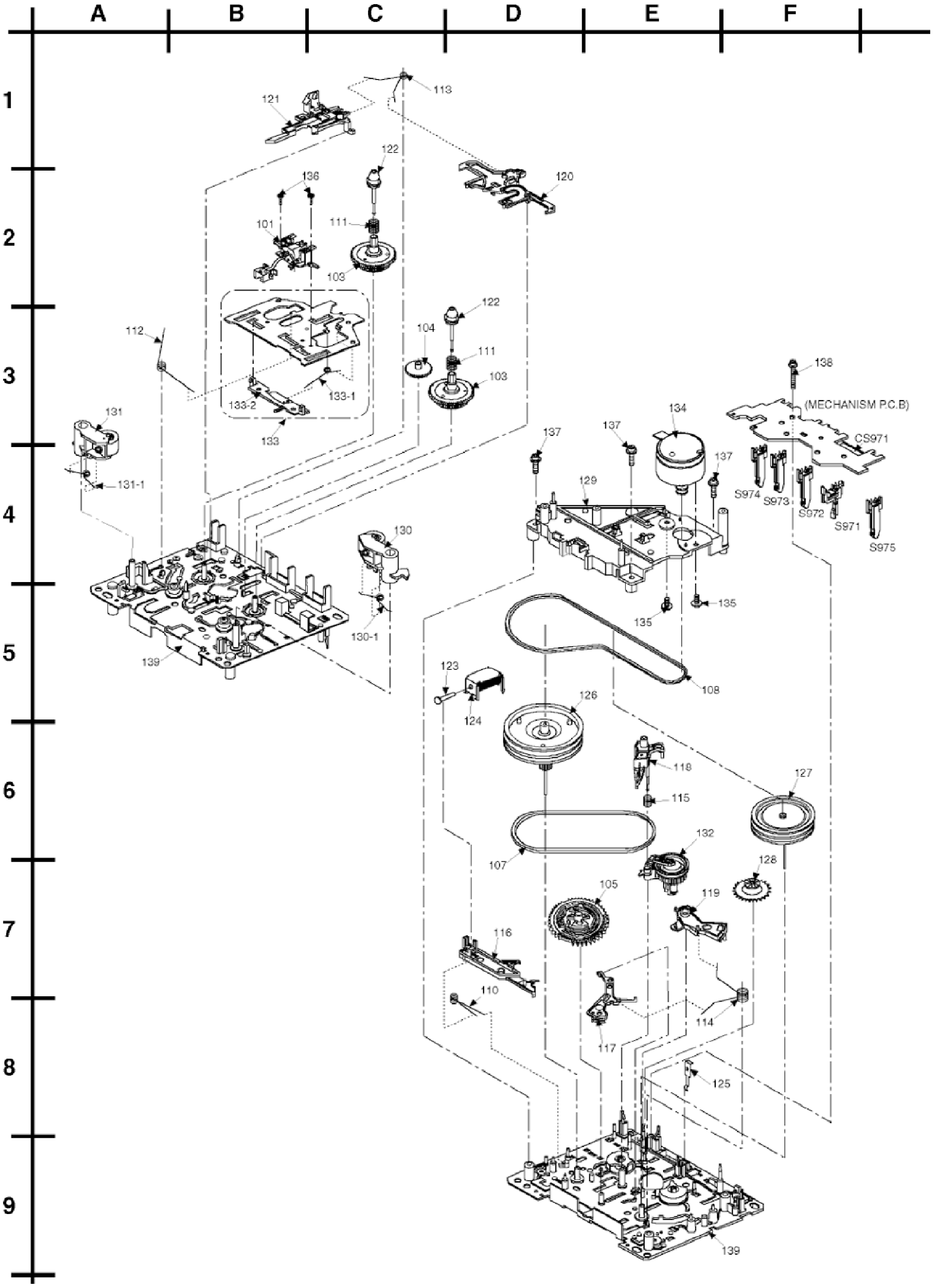
- Remote Control Unit: Supply period for three years from terminal of production.

- Reference for O/I book languages are as follows:

Ar :	**Arabic**	**Du :**	**Dutch**	**It :**	**Italian**	**Sp :**	**Spanish**
Cf :	**Canadian French**	**En :**	**English**	**Ko :**	**Korean**	**Sw :**	**Swedish**
Cz :	**Czech**	**Fr :**	**French**	**Po :**	**Polish**	**Co :**	**Traditio Chinese**
Da :	**Danish**	**Ge :**	**German**	**Ru :**	**Russian**	**Cn :**	**Simplifi Chinese**

19.1. Deck Mechanism (RAA4109-1S)

19.1.1. Deck Mechanism Parts Location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103
133-2
133-1
133
131
131-1
138
(MECHANISM P.C.B)
134
137
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CS971
S974
S973
S972
S971
S975
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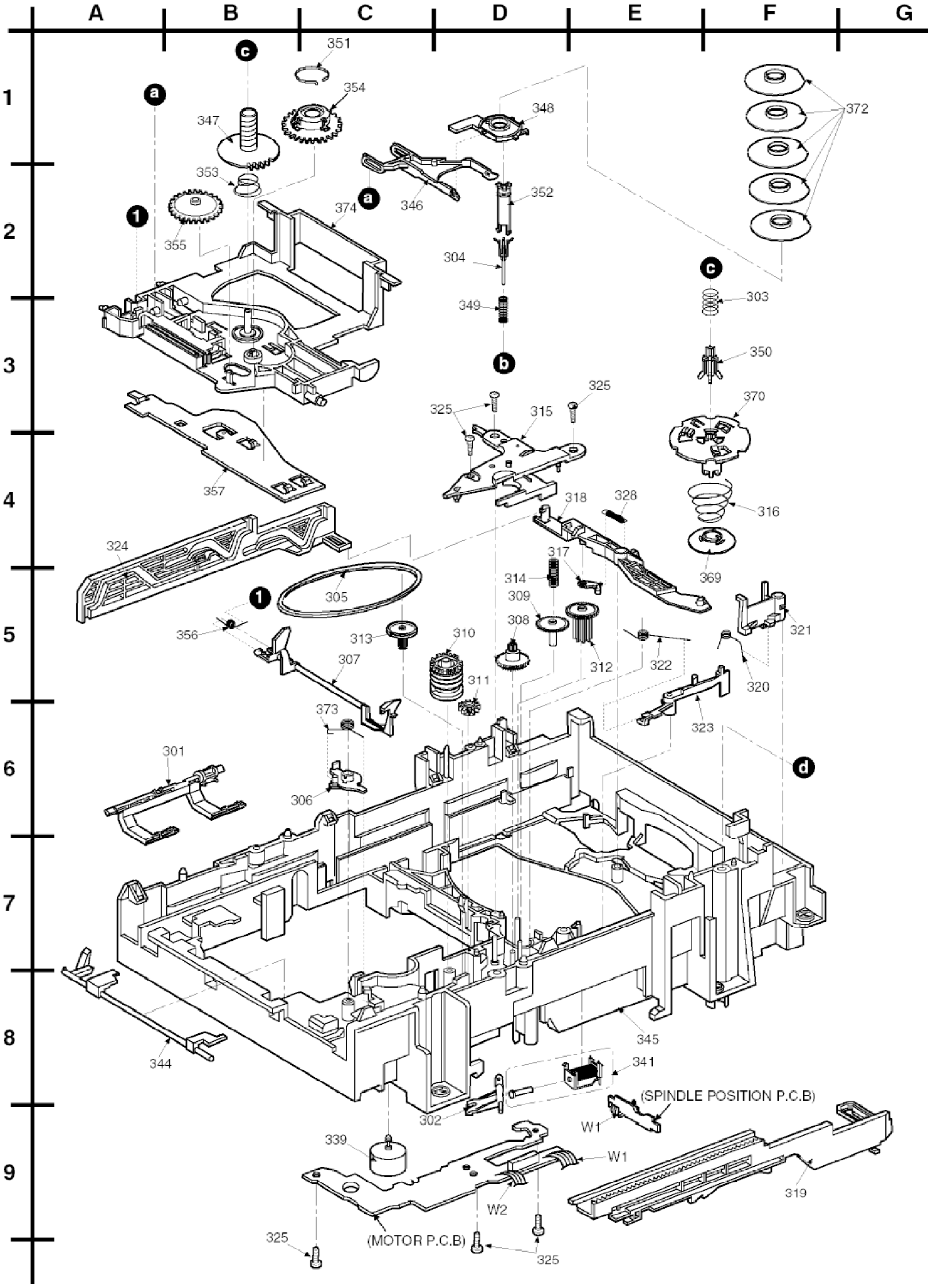
139

19.1.2. Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RED0059	R/P HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026	MAIN GEAR	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0034-1	CAPSTAN BELT ‘A’	[M]
110	RMB0312	TRIGGER LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAD PANEL SPRING	[M]
113	RMB0404	BRAKE ROD SPRING	[M]
114	RMB0406	FR LEVER SP	[M]
115	RMB0408	THRUST SPRING	[M]
116	RML0370	TRIGGER LEVER	[M]
117	RML0371	FR LEVER	[M]
118	RML0372	WINDING LEVER	[M]
119	RML0374	EJECT LEVER	[M]
120	RMM0131	BRAKE ROD	[M]
121	RMM0133-1	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398-1	MOVING CORE	[M]
124	RSJ0003	PLUNGER	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0049	FLYWHEEL ‘F’ ASS’Y	[M]
127	RXF0050	FLYWHEEL ‘R’ ASS’Y	[M]
128	RXG0040	FF RELAY GEAR ASS’Y	[M]
129	RMK0283A-J	SUB CHASSIS	[M]
130	RXL0124	PINCH ARM ‘F’ ASS’Y	[M]
130-1	RMB0401	PINCH ARM SPRING ‘F’	[M]
131	RXL0125	PINCH ARM ‘R’ ASS’Y	[M]
131-1	RMB0402	PINCH ARM SPRING ‘R’	[M]
132	RXL0126	WINDING ARM ASS’Y	[M]
133	RXQ0412	HEAD PANEL ASS’Y	[M]
133-1	RMB0405	FR ROD SPRING	[M]
133-2	RMM0132	FR ROD	[M]
134	REM0098	CAP MOTOR ASS’Y	[M]
135	RHD26022	MOTOR SCREW	[M]
136	XTW2+5L	HEAD BLOCK UNIT SCRE	[M]
137	XTW26+10S	SUB-CHASSIS SCREW	[M]
138	XYC2+JF17	PCB EARTH SCREW	[M]
139	RFKJSTR280PP	MAIN CHASSIS ASS’Y	[M]

19.2. CD Loading Mechanism (RD-DAC026-S)

19.2.1. CD Loading Mechanism Parts Location


A
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G
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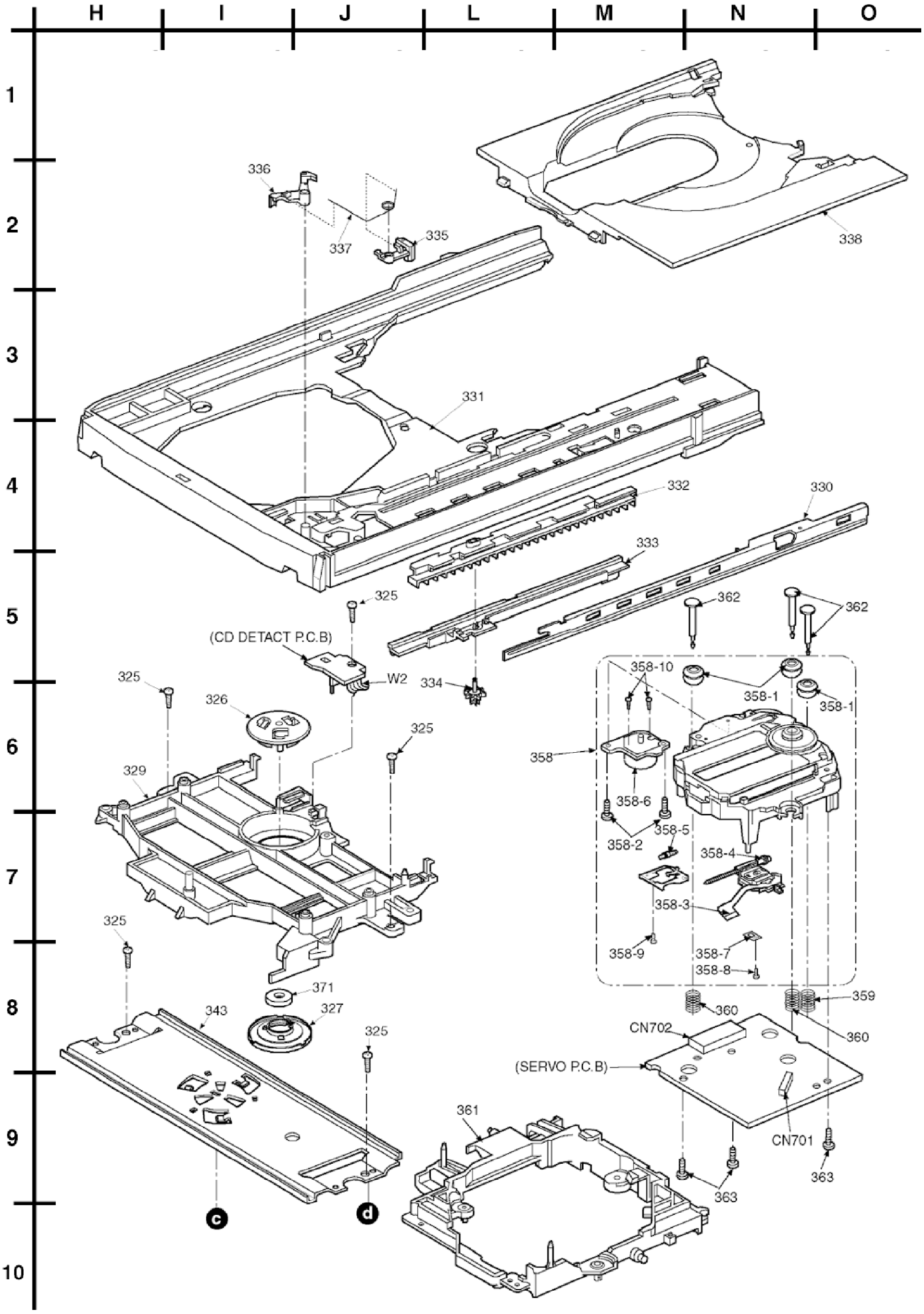
a
c
b
d
(SPINDLE POSITION P.C.B)
W1
W1
W2
(MOTOR P.C.B)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336
337
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338
331
332
330
333
325
362
362
(CD DETACT P.C.B)
W2
334
325
326
358-10
358-1
358-1
325
358
329
358-6
358-5
358-2
358-4
358-3
325
358-9
358-7
358-8
371
360
359
343
327
325
CN702
360
(SERVO P.C.B)
361
CN701
363
363
c
d

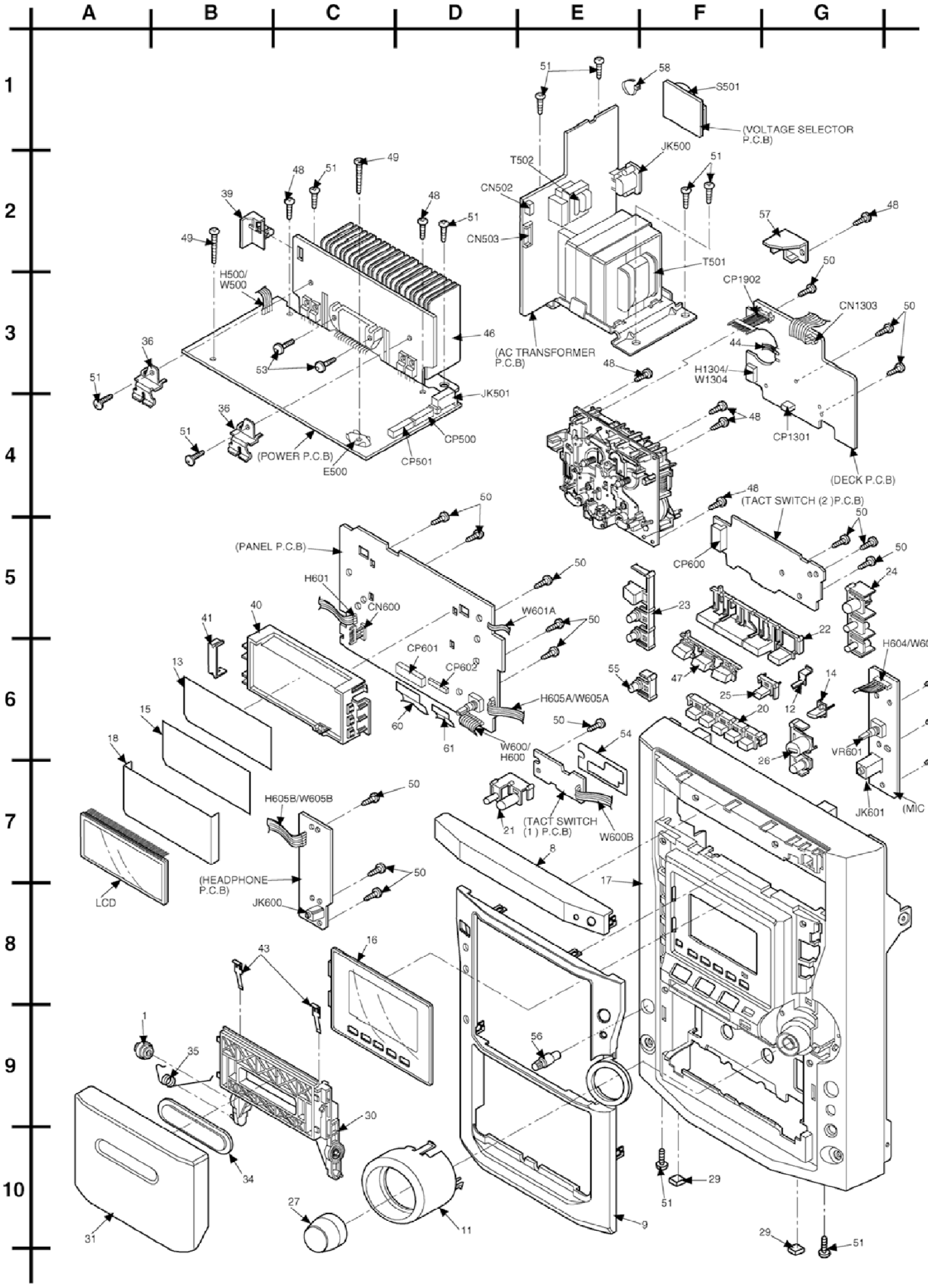
19.2.2. CD Loading Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RML0517	TIMING LEVER	[M]
302	RML0516	PLUNGER LEVER	[M]
303	RMB0551	UPPER SPINDLE SPRING	[M]
304	RMQ0744	LOWER HOOK	[M]
305	RDV0056	BELT	[M]
306	RML0525	FRONT LOCK LEVER	[M]
307	RML0526	DISC LEVER	[M]
308	RDG0424	DRIVE GEAR	[M]
309	RDG0425	CHANGE GEAR	[M]
310	RDG0427	TRAVERSE CAM GEAR	[M]
311	RDG0428	TRAVERSE RELAY GEAR	[M]
312	RDG0426	UP/DOWN GEAR	[M]
313	RDG0429	PULLEY GEAR	[M]
314	RMB0549-1	CHANGE GEAR SPRING	[M]
315	RMQ0748	PITCH PLATE	[M]
316	RMB0553	PUSH SPRING	[M]
317	RML0530	ASSIST LEVER	[M]
318	RML0518	CONNECTION LEVER	[M]
319	RMM0201	SLIDE PLATE 1	[M]
320	RME0258	REAR LOCK SPRING	[M]
321	RML0521	REAR LOCK	[M]
322	RME0257	TRAY LOCK LEVER SPRI	[M]
323	RML0520	TRAY LOCK	[M]
324	RMM0202	SLIDE PLATE 2	[M]
325	XTB3+10J	SCREW	[M]
326	RMR0334	FIXED PLATE	[M]
327	RMR0624-W2	CLAMPER	[M]
328	RMB0561	ASSIST LEVER SPRING	[M]
329	RMR1121-K	MECHA COVER	[M]
330	RMA1110-2	TRAY ANGLE	[M]
331	RMR1122-H1	TRAY BASE	[M]
332	RMM0204	CARRIER	[M]
333	RMM0203	DRIVE RACK	[M]
334	RDG0432	SPEED UP GEAR	[M]
335	RML0524	SLIDE LOCK	[M]
336	RML0523	CARRIER LOCK	[M]
337	RME0260-1	SLIDE LOCK SPRING	[M]
338	RMR1123-H	TRAY	[M]
339	RXQ0595	MOTOR SUB ASS'Y	[M]
341	RSJ0003	SOLENOLD ASS'Y	[M]
343	RMA1106	UPPER PLATE	[M]
344	RML0519	8CD LEVER	[M]
345	RFKNAAK27GCS	MECHA BASE ASS'Y	[M]
346	RML0522	TURNING STOPPER	[M]
347	RMQ0745	LOWER SPINDLE	[M]
348	RMQ0746	UP/DOWN BASE	[M]
349	RMB0550	LOWER SPINDLE SPRING	[M]
350	RMQ0747	UPPER HOOK	[M]
351	RME0263	CLICK SPRING	[M]
352	RMQ0743	SPINDLE SHAFT	[M]
353	RMB0552	CUSHION SPRING	[M]
354	RDG0430	RELAY GEAR 'A'	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
355	RDG0431	RELAY GEAR ‘B’	[M]
356	RME0262	DISK LEVER SP.	[M]
357	RMA1105	SUPPORT PLATE	[M]
358	RAE0152Z-3	TRV	[M]
358-1	SHGD113-1	FLOATING CUSHION	[M]
358-10	XQS17+A35FZ	SCREW	[M]
358-2	SNSD38	TRV MOTOR ASSY SCREW	[M]
358-3	RAF0150A-4S	OPU ASSY	[M]
358-4	RDG0247	DRIVE GEAR	[M]
358-5	RDG0248	RELAY GEAR	[M]
358-6	RXQ0339	TRV MOTOR ASSY	[M]
358-7	RXQ0304-1	NUT PLATE ASSY	[M]
358-8	XQN17+CG5	NUT PLATE ASSY SCREW	[M]
358-9	XQS17+A35FZ	TRV MOTOR SCREW	[M]
359	RME0142	FLOATING SPRING A	[M]
360	RME0109	FLOATING SPRING B	[M]
361	RMR1124A-K	TRV CHASSIS	[M]
362	RMS0632	TRV PIN	[M]
363	XTN2+6G	SCREW	[M]
369	RMX0141	PUSH SPACER	[M]
370	RMQ0749	UPPER SPINDLE	[M]
371	RHM0001	MAGNET	[M]
372	RMX0140	DISC SPACER	[M]
373	RME0261	FRONT LOCK SPRING	[M]
374	RMQ0742	SPINDLE BASE	[M]

19.3. Cabinet

19.3.1. Cabinet Parts Location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S501
(VOLTAGE SELECTOR P.C.B)
T502
JK500
CN502
CN503
T501
(AC TRANSFORMER P.C.B)
57
48
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CP1902
CN1303
44
H1304/ W1304
CP1301
(DECK P.C.B)
49
39
H500/ W500
36
53
46
JK501
CP500
CP501
E500
(POWER P.C.B)
(TACT SWITCH (2)P.C.B)
CP600
24
23
22
H604/W604
(PANEL P.C.B)
H601
CN600
W601A
40
41
13
15
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CP601
CP602
H605A/W605A
55
47
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W600/ H600
54
26
VR601
JK601
(MIC P.C.B)
H605B/W605B
21
(TACT SWITCH (1) P.C.B)
W600B
8
17
LCD
(HEADPHONE P.C.B)
JK600
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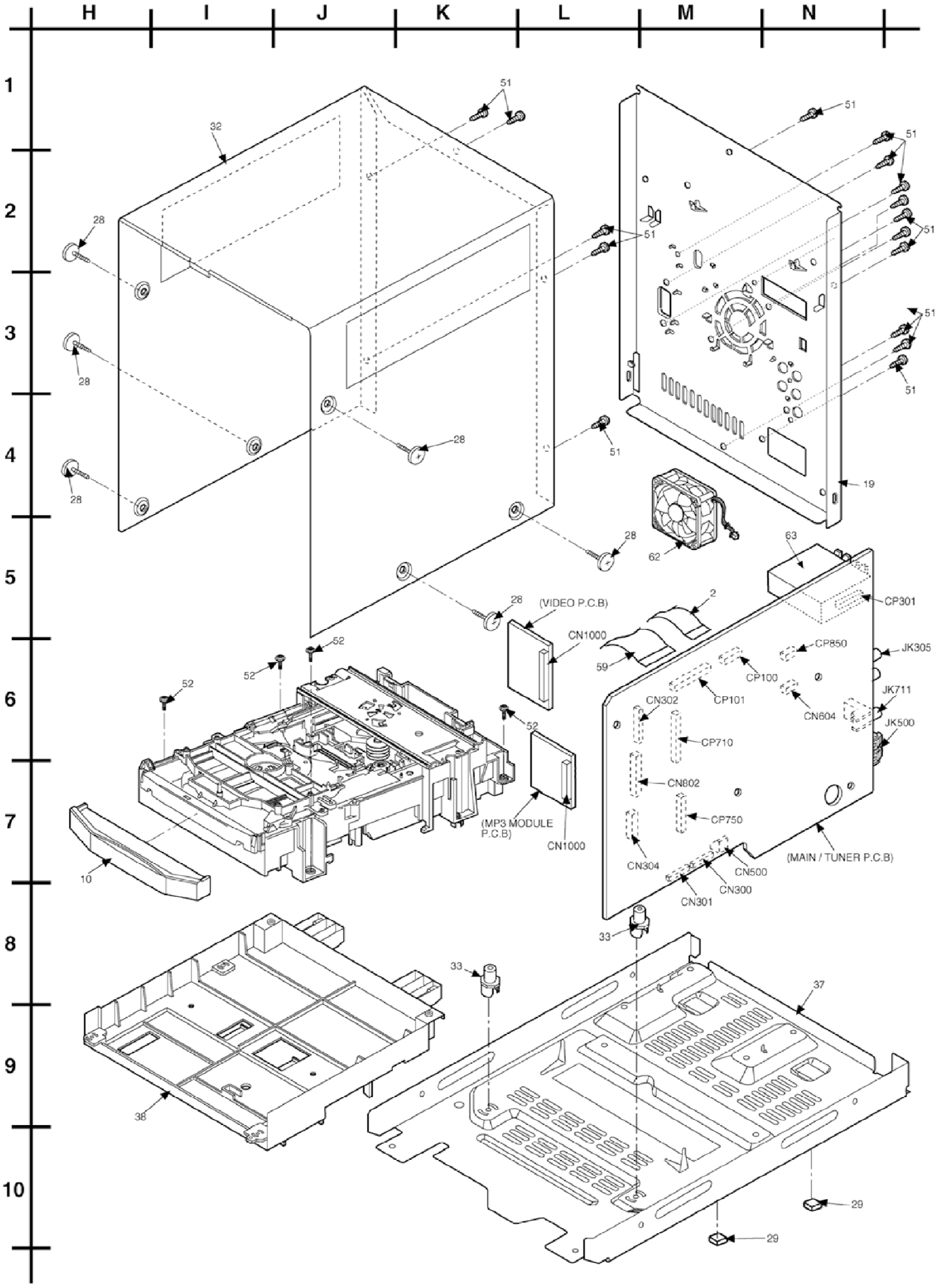
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63
(VIDEO P.C.B)
CN1000
2
59
CP301
CP850
JK305
CP100
CP101
JK711
CN302
CN604
JK500
CP710
CN802
CP750
(MP3 MODULE P.C.B)
CN304
CN500
CN300
CN301
(MAIN / TUNER P.C.B)
52
10
33
37
38
29

19.3.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RDG0357	DUMPER GEAR	[M]
2	REEX0105	14P FFC (CD-TO-MAIN)	[M]
8	RGKX0074B-W	FRONT ORNAMENT (TOP)	[M]
9	RGKX0073A-W	FRONT ORNAMENT (BTM)	[M]
10	RGKX0072A-W	CD LID	[M]
11	RGKX0080-S	VOLUME RING ORNAMENT	[M]
12	RGLX0031-Q	POWER LIGHTING CHIP	[M]
13	RGLX0032-Q	LCD LIGHTING PANEL	[M]
14	RGLX0035-Q	AMAZING BTN L.CHIP	[M]
15	RGPX0039	LCD FILTER SHEET (UN	[M]
16	RGPX0040B-Q	LCD WINDOW	[M]
17	RGPX0041D-S	FRONT PANEL	[M]
18	RGPX0050	LCD FILTER SHEET (BE	[M]
19	RGRX0018E-A	REAR PANEL	[M]
20	RGUX0383-S	CD BUTTON	[M]
21	RGUX0384-S	CD MANAGER BUTTON	[M]
22	RGUX0385A-S	DECK BUTTON	[M]
23	RGUX0388-S1	POWER BUTTON	[M]
24	RGUX0389-S1	REV/REC MODE BUTTON	[M]
25	RGUX0390-S	SELECTOR BUTTON	[M]
26	RGUX0391-S	AMAZING BUTTON	[M]
27	RGWX0057-S1	VOLUME KNOB	[M]
28	RHD03001-1S	SCREW	[M]
29	RKA0059-K	LEG FELT	[M]
30	RKF0479-K3	CASS HOLDER	[M]
31	RKFX0087-W	CASS LID	[M]
32	RKMX0058A-S	TOP CABINET	[M]
33	RKQ0089A	PCB SUPPORT	[M]
34	RKWX0150-Q	CASSETTE WINDOW	[M]
35	RMB0477-1	CASS OPEN SPRING	[M]
36	RMC0158-S	TRANSISTOR HOLDER	[M]
37	RMKX0046	BOTTOM CHASSIS	[M]
38	RMKX0047	CD CHASSIS	[M]
39	RMNX0040	HEATSINK SPACER	[M]
40	RMNX0041-W1	LCD HOLDER	[M]
41	RMNX0056-K	LED COVER	[M]
43	RUS757ZAA	CASS HALF SPRING	[M]
44	RWJ0102050KR	MOTOR WIRE	[M]
46	RXXX0022	HEAT SINK UNIT	[M]
47	RYQX0044B-W	FUNCTION BUTTON UNIT	[M]
48	XTB3+10JFZ	SCREW	[M]
49	XTB3+20JFZ	SCREW	[M]
50	XTBS26+10J	SCREW	[M]
51	XTBS3+8JFZ1	SCREW	[M]
52	XTW3+12T	SCREW	[M]
53	XTW3+15T	SCREW	[M]
54	RMNX0057	PCB SUPPORT	[M]
55	RGUX0387-S	KARAOKE BUTTON	[M]
56	RGWX0056-S	MIC VOLUME KNOB	[M]
57	RMNX0058	KARAOKE PCB SUPPORT	[M]
58	SHR301	WIRE CRAMPER	[M]
59	REEX0132	30P FFC (CD TO MAIN)	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
60	REEX0133	14PFFC (PANEL-MAIN)	[M]
61	REEX0136	24P FFC	[M]
62	REM0094	COLLING FAN	[M]
63	RAN0004MM-2	TUNER PACK	[M]

19.4. Component Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REPX0145C	CD SERVO P.C.B.	[M] / (RTL)
	REPX0263B	MAIN/TUNER P.C.B.	[M] / (RTL)
	REPX0263B	PANEL P.C.B.	[M] / (RTL)
	REPX0263B	MICROPHONE P.C.B.	[M] / (RTL)
	REPX0237H	VOLTAGE SELECTOR P.C.B.	[M] / (RTL)
	REPX0263B	TACT SWITCH (1) P.C.B.	[M] / (RTL)
	REPX0263B	TACT SWITCH (2) P.C.B.	[M] / (RTL)
	REPX0263B	HEADPHONE P.C.B.	[M] / (RTL)
	REPX0240A	DECK P.C.B.	[M] / (RTL)
	REPX0108	DECK MECHANISM P.C.B.	[M] / (RTL)
	REP2578A-N	MOTOR P.C.B.	[M] / (RTL)
	REP2578A-N	CD DETECT P.C.B.	[M] / (RTL)
	REP2578A-N	SPINDLE POSITION P.C.B.	[M] / (RTL)
	REPX0237H	POWER P.C.B.	[M] / (RTL)
	REPX0237H	AC TRANSFORMER P.C.B.	[M] / (RTL)
	RD-DVK029-SY	VIDEO P.C.B.	[M] / (RTL)
	REP3122A-T	MP3 MODULE P.C.B.	[M] / (RTL)
		INTEGRATED CIRCUITS	
IC1	TA7291P	IC DRIVE	[M]
IC100	C2BBGF000281	IC MICRO P	[M]
IC300	BU9255FS-E2	IC ECHO	[M]
IC301	BH3874AKS2	IC ASP	[M]
IC302	M5218AP	IC BUFFER AMP	[M]
IC303	M5218AFPE3	IC 2CH OP-AMP	[M]
IC501	RSN3502C-P	IC POWER	[M] ⚠
IC600	M38258MCM169	IC MICRO P	[M]
IC601	BU2090AF-E2	IC I/O EXPANDER	[M]
IC701	AN8885SBE1	IC RFAMP	[M]
IC702	MN662790RSC	IC LSI	[M]
IC703	AN8739SBE2	IC 4CH DRIVER	[M]
IC710	TC7W14FTE12L	IC AMP	[M]
IC750	TC74HC4050EL	IC 3V TO 5V	[M]
IC751	TC74HC157AFT	IC 3V TO 50 JC	[M]
IC800	BA033T	IC 3.3V REGULATER	[M] ⚠
IC801	SI8050JLF118	IC SWITCHING REGULAR	[M] ⚠
IC971	0N2180RLC1	IC PHOTO INTERUPTOR	[M]
IC1000	BA7755A	IC ANALOG SW	[M]
IC1000	MN1933222MD1	IC DSP	[M]
IC1000	MN89103M2	IC	[M]
IC1001	AN7326K	IC DECK R/P	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
IC1001	LH532KU1	IC	[M]
IC1001	MN101C427MA2	IC AMP3 MICROPROCESS	[M]
IC1002	C3BBHG000048	IC SRAM-1M	[M]
IC1002	M44260CTP7	IC	[M]
IC1003	C0JBAK000133	IC 12-ST-COUNTER	[M]
IC1003	TC7WU04FUT2L	IC	[M]
IC1004	C0JBAF000184	IC DUAL D FF	[M]
IC1004	TC7W14FUTE1L	IC	[M]
IC1005	C0JBAB000007	IC INVERTER	[M]
		TRANSISTORS	
Q1	RVTDTC143EST	TRANSISTOR	[M]
Q100	KRC102STA	TRANSISTOR	[M]
Q101	2SC2712GRT5T	TRANSISTOR	[M]
Q102	2SC2712GRT5T	TRANSISTOR	[M]
Q103	2SC2712GRT5T	TRANSISTOR	[M]
Q104	KRC101STA	TRANSISTOR	[M]
Q105	KRC101STA	TRANSISTOR	[M]
Q106	KRC101STA	TRANSISTOR	[M]
Q107	KRC101STA	TRANSISTOR	[M]
Q201	KTD1304TA	TRANSISTOR	[M]
Q202	KTD1304TA	TRANSISTOR	[M]
Q302	KRA111STA	TRANSISTOR	[M]
Q303	KRA111STA	TRANSISTOR	[M]
Q401	KTD1304TA	TRANSISTOR	[M]
Q402	KTD1304TA	TRANSISTOR	[M]
Q501	KTC2026	TRANSISTOR	[M] ⚠
Q502	KTA1046	TRANSISTOR	[M]
Q504	KTA1046	TRANSISTOR	[M]
Q505	KTC3199GRTA	TRANSISTOR	[M]
Q506	2SA933SSTA	TRANSISTOR	[M] ⚠
Q508	KTC3199GRTA	TRANSISTOR	[M] ⚠
Q509	KRA110MTA	TRANSISTOR	[M]
Q514	KTC2026	TRANSISTOR	[M] ⚠
Q515	KTC3199GRTA	TRANSISTOR	[M]
Q516	KTC3199GRTA	TRANSISTOR	[M]
Q517	KTC32030YTA	TRANSISTOR	[M] ⚠
Q519	KTC3199GRTA	TRANSISTOR	[M]
Q575	KTC3199GRTA	TRANSISTOR	[M]
Q576	2SD2144STA	TRANSISTOR	[M]
Q577	2SC3940AQSTA	TRANSISTOR	[M]
Q578	KRC102MTA	TRANSISTOR	[M]
Q601	KRC103STA	TRANSISTOR	[M]
Q602	2SC2712GRT5T	TRANSISTOR	[M]
Q603	2SC2712GRT5T	TRANSISTOR	[M]
Q604	KTA1504GRTA	TRANSISTOR	[M]
Q605	KRC102STA	TRANSISTOR	[M]
Q606	KRC102STA	TRANSISTOR	[M]
Q607	2SC2712GRT5T	TRANSISTOR	[M]
Q608	2SC2712GRT5T	TRANSISTOR	[M]
Q691	KTC3199GRTA	TRANSISTOR	[M]
Q692	2SC1740SSTA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q701	2SA1037AKSTX	TRANSISTOR	[M]
Q710	2SC3326BT5M	TRANSISTOR	[M]
Q711	KRA102STA	TRANSISTOR	[M]
Q754	KRC101STA	TRANSISTOR	[M]
Q800	2SB621ARSTA	TRANSISTOR	[M]
Q801	KRC102STA	TRANSISTOR	[M]
Q802	KRC102STA	TRANSISTOR	[M]
Q803	2SB621ARSTA	TRANSISTOR	[M]
Q804	KRA111STA	TRANSISTOR	[M]
Q805	KRC111STA	TRANSISTOR	[M]
Q806	KRC102STA	TRANSISTOR	[M]
Q850	2SA1162GRT5T	TRANSISTOR	[M]
Q851	KRC111STA	TRANSISTOR	[M]
Q852	2SC2712GRT5T	TRANSISTOR	[M]
Q853	2SC2712GRT5T	TRANSISTOR	[M]
Q854	2SC2712GRT5T	TRANSISTOR	[M]
Q855	2SB621ARTA	TRANSISTOR	[M]
Q856	KTC3875GRTA	TRANSISTOR	[M]
Q857	KTC3875GRTA	TRANSISTOR	[M]
Q1000	UN5211TX	TRANSISTOR	[M]
Q1101	2SD1450STA	TRANSISTOR	[M]
Q1103	2SD1450STA	TRANSISTOR	[M]
Q1201	2SD1450STA	TRANSISTOR	[M]
Q1203	2SD1450STA	TRANSISTOR	[M]
Q1302	KRA102MTA	TRANSISTOR	[M]
Q1304	KRA102MTA	TRANSISTOR	[M]
Q1306	KTC3199GRTA	TRANSISTOR	[M]
Q1307	KTC3199GRTA	TRANSISTOR	[M]
Q1308	KRC114MTA	TRANSISTOR	[M]
Q1309	KTC3199GRTA	TRANSISTOR	[M]
Q1310	KTC3199GRTA	TRANSISTOR	[M]
Q1312	KTC3199GRTA	TRANSISTOR	[M]
Q1313	2SC1845FTA	TRANSISTOR	[M]
Q1314	KRA102MTA	TRANSISTOR	[M]
Q1315	KTA12710YTA	TRANSISTOR	[M]
Q1316	2SD965RTA	TRANSISTOR	[M]
Q1317	2SC2001LTA	TRANSISTOR	[M]
Q1321	KRC119MTA	TRANSISTOR	[M]
Q1322	KRA102MTA	TRANSISTOR	[M]
		DIODES	
D1	GP1S94	DIODE	[M]
D2	MTZJ4R7BTA	DIODE	[M]
D100	1SS355TE17	DIODE	[M]
D101	1SS355TE17	DIODE	[M]
D300	1SS355TE17	DIODE	[M]
D363	1SS355TE17	DIODE	[M]
D501	1N5402BM21	DIODE	[M] ⚠
D502	1N5402BM21	DIODE	[M] ⚠
D503	1N5402BM21	DIODE	[M] ⚠
D504	1N5402BM21	DIODE	[M] ⚠
D508	MTZJ15BTA	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D515	MTZJ10BTA	DIODE	[M] ⚠
D517	MTZJ5R6BTA	DIODE	[M] ⚠
D520	MTZJ10BTA	DIODE	[M]
D524	MTZJ15CTA	DIODE	[M] ⚠
D525	RVD1SS133TA	DIODE	[M]
D526	RVD1SS133TA	DIODE	[M]
D527	RVD1SS133TA	DIODE	[M]
D539	RL1N4003S-P	DIODE	[M]
D541	RL1N4003S-P	DIODE	[M]
D577	RVD1SS133TA	DIODE	[M]
D578	RL1N4003S-P	DIODE	[M]
D579	RL1N4003S-P	DIODE	[M]
D580	RL1N4003S-P	DIODE	[M]
D582	MTZJ7R5ATA	DIODE	[M] ⚠
D583	RL1N4003S-P	DIODE	[M]
D584	RL1N4003S-P	DIODE	[M]
D587	RL1N4003S-P	DIODE	[M]
D588	RL1N4003S-P	DIODE	[M]
D589	RL1N4003S-P	DIODE	[M]
D590	1SS291TA	DIODE	[M]
D591	RL1N4003S-P	DIODE	[M]
D600	LNJ801TPSJAD	DIODE	[M]
D601	SLI343YC3F	DIODE	[M]
D602	SLI343YC3F	DIODE	[M]
D603	SLI343YC3F	DIODE	[M]
D604	SLI343YC3F	DIODE	[M]
D605	SLI343YC3F	DIODE	[M]
D606	SLI343YC3F	DIODE	[M]
D607	SLI325URCT31	DIODE	[M]
D608	1SS355TE17	DIODE	[M]
D609	1SS355TE17	DIODE	[M]
D610	1SS355TE17	DIODE	[M]
D611	1SS355TE17	DIODE	[M]
D612	RB501V-40	DIODE	[M]
D613	1SS355TE17	DIODE	[M]
D627	1SS380TE-17	DIODE	[M]
D628	1SS380TE-17	DIODE	[M]
D630	RB751V-40	DIODE	[M]
D631	1SS355TE17	DIODE	[M]
D800	RL1N4003N02	DIODE	[M]
D801	RL1N4003N02	DIODE	[M]
D802	RL1N4003N02	DIODE	[M]
D803	RL1N4003N02	DIODE	[M]
D804	RL1N4003N02	DIODE	[M]
D805	EK14LFH2K	DIODE	[M]
D806	1SS355TE17	DIODE	[M]
D807	1SS355TE17	DIODE	[M]
D808	1SS355TE17	DIODE	[M]
D809	1SS355TE17	DIODE	[M]
D810	1SS355TE17	DIODE	[M]
D850	1SS355TE17	DIODE	[M]
D851	1SS355TE17	DIODE	[M]
D852	MA704ATX	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D853	MA704ATX	DIODE	[M]
D856	1SS355TE17	DIODE	[M]
D857	MA728TX	DIODE	[M]
D971	MA165TA	DIODE	[M]
D1301	RVD1SS133TA	DIODE	[M]
		VARIABLE RESISTORS	
VR600	RRV12E24404A	VR VOLUME JOG	[M]
VR601	EVUF2AF15B14	VR MIC JOG	[M]
		SWITCHES	
S501	RSR4B008S-Q	SWITCH	[M] ⚠
S601	EVQ21405R	SW POWER	[M]
S602	EVQ21405R	SW CLOCK/TIMER	[M]
S603	EVQ21405R	SW REC/PLAY/DEMO	[M]
S604	EVQ21405R	SW DISC 1	[M]
S605	EVQ21405R	SW DISC 2	[M]
S606	EVQ21405R	SW DISC 3	[M]
S607	EVQ21405R	SW DISC 4	[M]
S608	EVQ21405R	SW DISC 5	[M]
S609	EVQ21405R	SW KARAOKE	[M]
S610	EVQ21405R	SW TUNER/BAND	[M]
S611	EVQ21405R	SW PLAY	[M]
S612	EVQ21405R	SW CD PAUSE	[M]
S613	EVQ21405R	SW SELECTOR	[M]
S614	EVQ21405R	SW STOP	[M]
S615	EVQ21405R	SW TUNE UP/FF	[M]
S616	EVQ21405R	SW TUNE MODE	[M]
S617	EVQ21405R	SW TUNE DOWN/REW	[M]
S618	EVQ21405R	SW CD OPEN/CLOSE	[M]
S619	EVQ21405R	SW CD MANAGER	[M]
S620	EVQ21405R	SW TAPE EJECT	[M]
S621	EVQ21405R	TACK SWITCH	[M]
S622	EVQ21405R	TACK SWITCH	[M]
S623	EVQ21405R	SW REV MODE	[M]
S624	EVQ21405R	SW REC/STOP	[M]
S701	RSH1A043-U	SW REST	[M]
S971	RSH1A018-3U	SW MODE	[M]
S972	RSH1A019-2U	SW LEAF	[M]
S973	RSH1A019-2U	SW LEAF	[M]
S974	RSH1A019-2U	SW LEAF	[M]
S975	RSH1A019-2U	SW LEAF	[M]
SW1	RSH1A032-U	SW SLIDE	[M]
SW2	RSH1A032-U	SW SLIDE	[M]
SW3	RSH1A005-1U	SW	[M]
SW4	RSH1A91ZA-A	SW	[M]
SW5	RSP1A017-A	SW LOWER	[M]
SW710	RSS2A66ZA-H	SW BP	[M]
		CONNECTORS	
CN1	RJS1A9414	14P CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
CN300	RJU100W09	9P CONNECTOR	[M]
CN301	RJU100W09	9P CONNECTOR	[M]
CN302	RJS2A5624	FFC CONNECTOR	[M]
CN304	RJS1A5209	TO MAIN MOLEX	[M]
CN500	RJP4G9YA	CONNECTOR	[M]
CN502	RJP4G18ZA	TAPE HEAD CONNECTOR	[M]
CN503	RJT029W005-1	5P CONNECTOR	[M]
CN600	RJT066H05B	5P B/B CONNECTOR	[M]
CN604	RJP5G18ZA	CONNECTOR	[M]
CN701	RJS2A6016	16P FFC CONNECTOR	[M]
CN702	RJS2A4230-1F	30P CONNECTOR	[M]
CN802	RJS1A9414	FF CONNECTOR	[M]
CN1000	K1KA20B00022	20P CONNECTOR	[M]
CN1000	RJT107K30T	30P CONNECTOR	[M]
CN1303	RJS10T7ZA	PLL-TU OLEX	[M]
CP100	RJS1A9414	FF CONNECTOR	[M]
CP101	RJS2A3330	30P FFC CP	[M]
CP301	RJT100W11	11P CONNECTOR	[M]
CP500	RJT100W09	9P CONNECTOR	[M]
CP501	RJT100W09	9P CONNECTOR	[M]
CP600	RJU066H05	5P B/B CONNECTOR	[M]
CP601	RJS1A9314	14P CONNECTOR	[M]
CP602	RJS2A5724	FFC CONNECTOR	[M]
CP710	RJU107K30M	30P CONNECTOR	[M]
CP750	RJU107K20AW	20P CONNECTOR	[M]
CP850	RJP2G4YA	CONNECTOR	[M]
CP1301	RJS1A6805-J	CONNECTOR	[M]
CP1902	RJT071K09A	CONNECTOR	[M]
CS971	RJU071H09M1	CONNECTOR	[M]
		COILS & TRANSFORMERS	
L100	RLL500050T-Y	RF CHOKE COIL	[M]
L600	RLQB101JTD-D	INDUCTOR	[M]
L601	RLQB100JTD-D	INDUCTOR	[M]
L602	RLQB101JTD-D	INDUCTOR	[M]
L603	RLQB3R3KT-1Y	COIL	[M]
L691	RLQB3R3KT-1Y	COIL	[M]
L692	RLQB3R3KT-1Y	COIL	[M]
L701	RLBN102V-Y	CHIP INDUCTOR	[M]
L702	RLBN102V-Y	CHIP INDUCTOR	[M]
L703	RLBN102V-Y	CHIP INDUCTOR	[M]
L704	RLBN102V-Y	CHIP INDUCTOR	[M]
L710	RLL500050T-Y	RF CHOKE COIL	[M]
L711	RLL500050T-Y	RF CHOKE COIL	[M]
L750	RLL500050T-Y	RF CHOKE COIL	[M]
L800	RLL500050T-Y	RF CHOKE COIL	[M]
L801	RLL500050T-Y	RF CHOKE COIL	[M]
L802	RLQX101M-T	CHOKE COIL	[M]
L803	RLL500050T-Y	RF CHOKE COIL	[M]
L1000	RLQP1R8KT2-Y	COIL	[M]
L1001	VLP0157-T	COIL	[M]
L1002	RLQP2R7KT2-Y	COIL	[M]
L1301	7L1A62N	BIAS OCS COIL	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
L1303	RLQA470JT1-Y	AXIAL COIL	[M]
T501	RTP1M3E028-T	TRANSFORMER	[M] ⚠
T502	RTP1H3E001	BACK UP TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	
Z501	ERZV10V511CS	ZENER	[M] ⚠
Z600	RSL5283-G	LCD DISPLAY	[M]
Z601	RCDGP1U28XD	REMOTE SENSOR	[M]
Z971	EXBF7L355SYV	RADA RESISTOR	[M]
		RELAY	
RL502	RSY0056M-C	RELAY	[M] ⚠
		OSCILLATORS	
X100	EF0EC6004T4	RESONATOR	[M]
X600	RSXZ8M00D03	CERAMIC RESONATOR	[M]
X601	RSXD32K7S02	CRYSTAL OSCILLATOR	[M]
X701	RSXB16M9J02T	CRYSTAL OSCILLATOR	[M]
X1000	RSXC27M0S02T	OSCILLATOR	[M]
		FUSES	
F1	XBA2C16TB0	FUSE	[M] ⚠
F2	XBA2C08TB0	FUSE	[M] ⚠
		FUSE HOLDERS	
FC1	EYF52BC	FUSE HOLDER	[M]
FC2	EYF52BC	FUSE HOLDER	[M]
FC3	EYF52BC	FUSE HOLDER	[M]
FC4	EYF52BC	FUSE HOLDER	[M]
		HOLDERS	
H500	RJS1A5505	WIRE HOLDER	[M]
H600	RMR0319	10P CABLE HOLDER	[M]
H601	RMR0313	CABLE HOLDER	[M]
H604	RMR0314	CABLE HOLDER	[M]
H605A	RMR0315	6P WIRE HOLDER	[M]
H605B	RMR0315	6P WIRE HOLDER	[M]
H1304	RMR0318	9P WIRE HOLDER	[M]
		JACKS	
JK305	RJH2405N	JK RCA	[M]
JK500	RJR0054E-L	JK SPEAKER TERMINAL	[M]
JK500	SJS9236-1	JK AC INLET	[M] ⚠
JK501	SJS50478JQ	JK B/B CONNECTOR	[M]
JK600	RJJ37TK07-X	JK HEADPHONE	[M]
JK601	RJJ37TK07-X	JK HEADPHONE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
JK711	SJFD7-6	JK VIDEO	[M]
		EARTH TERMINAL	
E500	SNE1004-2	EARTH TERMINAL	[M]
		WIRES	
W1	REZ1023-1	4P WIRE	[M]
W2	REZ1024	3P WIRE	[M]
W1	REEX0057	PRIMARY WIRE (ORANGE)	[M]
W2	REE0782	PRIMARY WIRE (GREY)	[M]
W3	REEX0059	PRIMARY WIRE (BLUE)	[M]
W4	REEX0060	PRIMARY WIRE (RED)	[M]
W5	REEX0122	PRIMARY WIRE (BLACK)	[M]
W6	REEX0123	PRIMARY WIRE (WHITE)	[M]
W7	REEX0125	PRIMARY WIRE (YELLOW)	[M]
W8	REEX0126	PRIMARY WIRE (PURPLE)	[M]
W304	RWJ1109110RX	4P PANEL TO TRANS	[M]
W500	REXX0241	5P POWER TO TRANS	[M]
W600	RWJ0103100SS	3P PANEL TO PANEL	[M]
W601	REXX0240	4P PANEL TO TRANS	[M]
W602	RWJ1110140XX	10P PANEL TO DECK	[M]
W604	REXX0260	5P MIC WIRE	[M]
W605	RWJ0206130XX	6P PANEL TO HEADP	[M]
		RESISTORS	
R1	ERDS2TJ102T	1K 1/4W	[M]
R100	ERJ3GEYJ472V	4.7K 1/16W	[M]
R102	ERJ3GEYJ103V	10K 1/16W	[M]
R103	ERJ3GEYJ103V	10K 1/16W	[M]
R104	ERJ3GEYJ152V	1.5K 1/16W	[M]
R105	ERJ3GEYJ473V	47K 1/16W	[M]
R106	ERJ3GEYJ101V	100 1/16W	[M]
R107	ERJ3GEYJ102V	1K 1/16W	[M]
R108	ERJ3GEYJ101V	100 1/16W	[M]
R109	ERJ3GEYJ102V	1K 1/16W	[M]
R110	ERJ3GEYJ101V	100 1/16W	[M]
R111	ERJ3GEYJ223V	22K 1/16W	[M]
R112	ERJ3GEYJ472V	4.7K 1/16W	[M]
R114	ERJ3GEYJ102V	1K 1/16W	[M]
R115	ERJ3GEYJ680V	68 1/16W	[M]
R116	ERJ3GEYJ103V	10K 1/16W	[M]
R117	ERJ3GEYJ472V	4.7K 1/16W	[M]
R118	ERJ3GEYJ473V	47K 1/16W	[M]
R119	ERJ3GEYJ101V	100 1/16W	[M]
R120	ERJ3GEYJ101V	100 1/16W	[M]
R121	ERJ3GEYJ101V	100 1/16W	[M]
R122	ERJ3GEYJ101V	100 1/16W	[M]
R123	ERJ3GEYJ101V	100 1/16W	[M]
R124	ERJ3GEYJ101V	100 1/16W	[M]
R125	ERJ3GEYJ102V	1K 1/16W	[M]
R126	ERJ3GEYJ473V	47K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R127	ERJ3GEYJ102V	1K 1/16W	[M]
R128	ERJ3GEYJ101V	100 1/16W	[M]
R129	ERJ3GEYJ102V	1K 1/16W	[M]
R130	ERJ3GEYJ101V	100 1/16W	[M]
R131	ERJ3GEYJ472V	4.7K 1/16W	[M]
R132	ERJ3GEYJ472V	4.7K 1/16W	[M]
R133	ERJ3GEYJ102V	1K 1/16W	[M]
R134	ERJ3GEYJ101V	100 1/16W	[M]
R135	ERJ3GEYJ102V	1K 1/16W	[M]
R136	ERJ3GEYJ102V	1K 1/16W	[M]
R137	ERJ3GEYJ102V	1K 1/16W	[M]
R138	ERJ3GEYJ472V	4.7K 1/16W	[M]
R139	ERJ3GEYJ102V	1K 1/16W	[M]
R140	ERJ3GEYJ102V	1K 1/16W	[M]
R141	ERJ3GEYJ102V	1K 1/16W	[M]
R142	ERJ3GEYJ101V	100 1/16W	[M]
R143	ERJ3GEYJ102V	1K 1/16W	[M]
R144	ERJ3GEYJ101V	100 1/16W	[M]
R145	ERJ3GEYJ222V	2.2K 1/16W	[M]
R146	ERJ3GEYJ101V	100 1/16W	[M]
R147	ERJ3GEYJ102V	1K 1/16W	[M]
R148	ERJ3GEYJ101V	100 1/16W	[M]
R149	ERJ3GEYJ101V	100 1/16W	[M]
R150	ERJ3GEYJ103V	10K 1/16W	[M]
R151	ERJ3GEYJ101V	100 1/16W	[M]
R152	ERJ3GEYJ104V	100K 1/16W	[M]
R153	ERJ3GEYJ472V	4.7K 1/16W	[M]
R154	ERJ3GEYJ473V	47K 1/16W	[M]
R155	ERJ3GEYJ473V	47K 1/16W	[M]
R156	ERJ3GEYJ472V	4.7K 1/16W	[M]
R157	ERJ3GEYJ472V	4.7K 1/16W	[M]
R158	ERJ3GEYJ472V	4.7K 1/16W	[M]
R159	ERJ3GEYJ472V	4.7K 1/16W	[M]
R160	ERJ3GEYJ223V	22K 1/16W	[M]
R161	ERJ3GEYJ472V	4.7K 1/16W	[M]
R162	ERJ3GEYJ472V	4.7K 1/16W	[M]
R163	ERJ3GEYJ472V	4.7K 1/16W	[M]
R164	ERJ3GEYJ472V	4.7K 1/16W	[M]
R165	ERJ3GEYJ472V	4.7K 1/16W	[M]
R166	ERJ3GEYJ103V	10K 1/16W	[M]
R167	ERJ3GEYJ103V	10K 1/16W	[M]
R168	ERJ3GEYJ103V	10K 1/16W	[M]
R169	ERJ3GEYJ103V	10K 1/16W	[M]
R170	ERJ3GEYJ103V	10K 1/16W	[M]
R171	ERJ3GEYJ103V	10K 1/16W	[M]
R172	ERJ3GEYJ103V	10K 1/16W	[M]
R173	ERJ3GEYJ103V	10K 1/16W	[M]
R174	ERJ3GEYJ103V	10K 1/16W	[M]
R175	ERJ3GEYJ103V	10K 1/16W	[M]
R176	ERJ3GEYJ103V	10K 1/16W	[M]
R179	ERJ3GEYJ103V	10K 1/16W	[M]
R180	ERJ3GEYJ103V	10K 1/16W	[M]
R182	ERJ3GEYJ221V	220 1/16W	[M]
R183	ERJ3GEYJ101V	100 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R184	**ERJ3GEYJ101V**	**100 1/16W**	**[M]**
R185	**ERJ3GEYJ101V**	**100 1/16W**	**[M]**
R186	**ERJ3GEYJ101V**	**100 1/16W**	**[M]**
R201	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R202	**ERJ3GEYJ183V**	**18K 1/16W**	**[M]**
R203	**ERJ3GEYJ222V**	**2.2K 1/16W**	**[M]**
R204	**ERJ3GEYJ223V**	**22K 1/16W**	**[M]**
R207	**ERJ3GEYJ682V**	**6.8K 1/16W**	**[M]**
R208	**ERJ3GEYJ682V**	**6.8K 1/16W**	**[M]**
R210	**ERJ3GEYJ472V**	**4.7K 1/16W**	**[M]**
R211	**ERJ3GEYJ183V**	**18K 1/16W**	**[M]**
R212	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R213	**ERJ3GEYJ471V**	**470 1/16W**	**[M]**
R214	**ERJ3GEYJ104V**	**100K 1/16W**	**[M]**
R215	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R218	**ERJ3GEYJ823V**	**82K 1/16W**	**[M]**
R219	**ERJ3GEYJ394V**	**390K 1/16W**	**[M]**
R220	**ERJ3GEYJ683V**	**68K 1/16W**	**[M]**
R221	**ERJ3GEYJ104V**	**100K 1/16W**	**[M]**
R222	**ERJ3GEYJ472V**	**4.7K 1/16W**	**[M]**
R223	**ERJ3GEYJ273V**	**27K 1/16W**	**[M]**
R224	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R225	**ERJ3GEYJ472V**	**4.7K 1/16W**	**[M]**
R226	**ERJ3GEYJ473V**	**47K 1/16W**	**[M]**
R227	**ERJ3GEYJ682V**	**6.8K 1/16W**	**[M]**
R228	**ERJ3GEYJ153V**	**15K 1/16W**	**[M]**
R229	**ERJ3GEYJ101V**	**100 1/16W**	**[M]**
R230	**ERJ3GEYJ390V**	**39 1/16W**	**[M]**
R231	**ERJ3GEYJ390V**	**39 1/16W**	**[M]**
R250	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R251	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R300	**ERJ3GEYJ152V**	**1.5K 1/16W**	**[M]**
R301	**ERJ3GEYJ472V**	**4.7K 1/16W**	**[M]**
R302	**ERJ3GEYJ153V**	**15K 1/16W**	**[M]**
R303	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R304	**ERJ3GEYJ472V**	**4.7K 1/16W**	**[M]**
R305	**ERJ3GEYJ332V**	**3.3K 1/16W**	**[M]**
R306	**ERJ3GEYJ473V**	**47K 1/16W**	**[M]**
R307	**ERJ3GEYJ223V**	**22K 1/16W**	**[M]**
R308	**ERJ3GEYJ153V**	**15K 1/16W**	**[M]**
R309	**ERJ3GEYJ104V**	**100K 1/16W**	**[M]**
R310	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R311	**ERJ3GEYJ223V**	**22K 1/16W**	**[M]**
R312	**ERJ3GEYJ104V**	**100K 1/16W**	**[M]**
R313	**ERJ3GEYJ122V**	**1.2K 1/16W**	**[M]**
R314	**ERJ3GEYJ223V**	**22K 1/16W**	**[M]**
R315	**ERJ3GEYJ472V**	**4.7K 1/16W**	**[M]**
R316	**ERJ3GEYJ1R0V**	**1 1/16W**	**[M]**
R317	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R318	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R319	**ERJ3GEYJ472V**	**4.7K 1/16W**	**[M]**
R320	**ERJ3GEYJ223V**	**22K 1/16W**	**[M]**
R321	**ERJ3GEYJ822V**	**8.2K 1/16W**	**[M]**
R322	**ERJ3GEYJ153V**	**15K 1/16W**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
R323	ERJ3GEYJ153V	15K 1/16W	[M]
R324	ERJ3GEYJ332V	3.3K 1/16W	[M]
R325	ERJ3GEYJ682V	6.8K 1/16W	[M]
R326	ERJ3GEYJ101V	100 1/16W	[M]
R327	ERJ3GEYJ472V	4.7K 1/16W	[M]
R328	ERJ3GEYJ101V	100 1/16W	[M]
R329	ERJ3GEYJ102V	1K 1/16W	[M]
R367	ERJ3GEYJ273V	27K 1/16W	[M]
R401	ERJ3GEYJ103V	10K 1/16W	[M]
R402	ERJ3GEYJ183V	18K 1/16W	[M]
R403	ERJ3GEYJ222V	2.2K 1/16W	[M]
R404	ERJ3GEYJ223V	22K 1/16W	[M]
R407	ERJ3GEYJ682V	6.8K 1/16W	[M]
R408	ERJ3GEYJ682V	6.8K 1/16W	[M]
R410	ERJ3GEYJ472V	4.7K 1/16W	[M]
R411	ERJ3GEYJ183V	18K 1/16W	[M]
R412	ERJ3GEYJ102V	1K 1/16W	[M]
R413	ERJ3GEYJ471V	470 1/16W	[M]
R414	ERJ3GEYJ104V	100K 1/16W	[M]
R415	ERJ3GEYJ102V	1K 1/16W	[M]
R418	ERJ3GEYJ823V	82K 1/16W	[M]
R419	ERJ3GEYJ394V	390K 1/16W	[M]
R420	ERJ3GEYJ683V	68K 1/16W	[M]
R421	ERJ3GEYJ104V	100K 1/16W	[M]
R422	ERJ3GEYJ472V	4.7K 1/16W	[M]
R423	ERJ3GEYJ273V	27K 1/16W	[M]
R424	ERJ3GEYJ102V	1K 1/16W	[M]
R425	ERJ3GEYJ472V	4.7K 1/16W	[M]
R426	ERJ3GEYJ473V	47K 1/16W	[M]
R427	ERJ3GEYJ682V	6.8K 1/16W	[M]
R428	ERJ3GEYJ153V	15K 1/16W	[M]
R429	ERJ3GEYJ101V	100 1/16W	[M]
R430	ERJ3GEYJ390V	39 1/16W	[M]
R431	ERJ3GEYJ390V	39 1/16W	[M]
R450	ERJ3GEYJ103V	10K 1/16W	[M]
R451	ERJ3GEYJ103V	10K 1/16W	[M]
R503	ERDS2TJ332T	3.3K 1/4W	[M]
R504	ERDS2TJ103T	10K 1/4W	[M]
R511	ERDS2TJ182T	1.8K 1/4W	[M]
R512	ERDS2TJ151T	150 1/4W	[M]
R517	ERDS2TJ331T	330 1/4W	[M]
R518	ERDS2TJ122T	1.2K 1/4W	[M]
R519	ERDS2TJ2R2T	2.2 1/4W	[M]
R520	ERDS2TJ2R2T	2.2 1/4W	[M]
R524	ERDS2TJ2R2T	2.2 1/4W	[M]
R525	ERDS2TJ272T	2.7K 1/4W	[M]
R526	ERDS2TJ103T	10K 1/4W	[M]
R527	ERDS2TJ561T	560 1/4W	[M]
R528	ERDS2TJ272T	2.7K 1/4W	[M]
R529	ERDS1FVJ332T	3.3K 1/2W	[M] ⚠
R530	ERD2FCVG470T	47 1/4W	[M]
R531	ERDS1FVJ470T	47 1/2W	[M] ⚠
R532	ERDS2TJ102T	1K 1/4W	[M]
R533	ERDS2TJ102T	1K 1/4W	[M]

[illegible]	[illegible]	1R 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R534	ERD25FVJ4R7T	4.7 1/4W	[M]
R536	ERDS1FVJ2R7T	2.7 1/2W	[M] ⚠
R537	ERDS2TJ222T	2.2K 1/4W	[M]
R539	ERDS1FVJ392T	3.9K 1/2W	[M] ⚠
R540	ERDS2TJ683T	68K 1/4W	[M]
R541	ERDS2TJ683T	68K 1/4W	[M]
R542	ERDS2TJ562T	5.6K 1/4W	[M]
R543	ERDS2TJ562T	5.6K 1/4W	[M]
R544	ERDS2TJ683T	68K 1/4W	[M]
R545	ERDS2TJ683T	68K 1/4W	[M]
R546	ERDS2TJ223T	22K 1/4W	[M]
R547	ERDS2TJ124T	120K 1/4W	[M]
R548	ERDS2TJ104T	100K 1/4W	[M]
R549	ERDS1FVJ2R2T	2.2 1/2W	[M] ⚠
R550	ERDS2TJ222T	2.2K 1/4W	[M]
R551	ERDS2TJ103T	10K 1/4W	[M]
R552	ERDS1FVJ100T	10 1/2W	[M] ⚠
R553	ERDS1FVJ100T	10 1/2W	[M] ⚠
R554	ERDS2TJ334T	330K 1/4W	[M]
R556	ERD2FCVG270T	27 1/4W	[M]
R557	ERDS1FVJ1R0T	1 1/2W	[M] ⚠
R558	ERDS1FVJ470T	47 1/2W	[M] ⚠
R559	ERDS1FVJ330T	33 1/2W	[M] ⚠
R565	ERDS2TJ104T	100K 1/4W	[M]
R567	ERDS2TJ151T	150 1/4W	[M]
R576	ERDS2TJ103T	10K 1/4W	[M]
R577	ERDS2TJ103T	10K 1/4W	[M]
R578	ERDS2TJ331T	330 1/4W	[M]
R579	RSFMB40KT-L	FUSE PROTECTOR	[M] ⚠
R580	ERDS1FVJ180T	18 1/2W	[M] ⚠
R581	ERDS1FVJ180T	18 1/2W	[M] ⚠
R582	ERDS2TJ824T	820K 1/4W	[M]
R583	ERDS2TJ122T	1.2K 1/4W	[M]
R585	ERDS1FVJ220T	22 1/2W	[M] ⚠
R586	ERDS2TJ150T	15 1/4W	[M]
R588	ERDS2TJ152T	1.5K 1/4W	[M]
R600	ERJ3GEYJ102V	1K 1/16W	[M]
R601	ERJ3GEYJ102V	1K 1/16W	[M]
R602	ERJ3GEYJ122V	1.2K 1/16W	[M]
R603	ERJ3GEYJ182V	1.8K 1/16W	[M]
R604	ERJ3GEYJ222V	2.2K 1/16W	[M]
R605	ERJ3GEYJ272V	2.7K 1/16W	[M]
R606	ERJ3GEYJ472V	4.7K 1/16W	[M]
R607	ERJ3GEYJ102V	1K 1/16W	[M]
R608	ERJ3GEYJ102V	1K 1/16W	[M]
R609	ERJ3GEYJ122V	1.2K 1/16W	[M]
R610	ERJ3GEYJ182V	1.8K 1/16W	[M]
R611	ERJ3GEYJ222V	2.2K 1/16W	[M]
R612	ERJ3GEYJ272V	2.7K 1/16W	[M]
R613	ERJ3GEYJ472V	4.7K 1/16W	[M]
R614	ERJ3GEYJ682V	6.8K 1/16W	[M]
R615	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R616	ERJ3GEYJ102V	1K 1/16W	[M]
R617	ERJ3GEYJ102V	1K 1/16W	[M]
R618	ERJ3GEYJ122V	1.2K 1/16W	[M]
R619	ERJ3GEYJ182V	1.8K 1/16W	[M]
R620	ERJ3GEYJ222V	2.2K 1/16W	[M]
R621	ERJ3GEYJ272V	2.7K 1/16W	[M]
R622	ERJ3GEYJ472V	4.7K 1/16W	[M]
R624	ERJ3GEYJ473V	47K 1/16W	[M]
R625	ERJ3GEYJ103V	10K 1/16W	[M]
R626	ERJ3GEYJ223V	22K 1/16W	[M]
R627	ERJ3GEYJ223V	22K 1/16W	[M]
R628	ERJ3GEYJ103V	10K 1/16W	[M]
R629	ERJ3GEYJ222V	2.2K 1/16W	[M]
R630	ERJ3GEYJ103V	10K 1/16W	[M]
R631	ERJ3GEYJ223V	22K 1/16W	[M]
R632	ERJ3GEYJ103V	10K 1/16W	[M]
R633	ERJ3GEYJ473V	47K 1/16W	[M]
R634	ERJ3GEYJ221V	220 1/16W	[M]
R635	ERJ3GEYJ221V	220 1/16W	[M]
R636	ERJ3GEYJ102V	1K 1/16W	[M]
R640	ERJ3GEYJ472V	4.7K 1/16W	[M]
R641	ERJ3GEYJ471V	470 1/16W	[M]
R642	ERJ3GEYJ472V	4.7K 1/16W	[M]
R643	ERJ3GEYJ104V	100K 1/16W	[M]
R644	ERJ3GEYJ104V	100K 1/16W	[M]
R645	ERJ3GEYJ473V	47K 1/16W	[M]
R646	ERJ3GEYJ334V	330K 1/16W	[M]
R647	ERJ3GEYJ223V	22K 1/16W	[M]
R648	ERJ3GEYJ103V	10K 1/16W	[M]
R649	ERJ3GEYJ224V	220K 1/16W	[M]
R650	ERJ3GEYJ223V	22K 1/16W	[M]
R651	ERJ3GEYJ105V	1M 1/16W	[M]
R652	ERJ3GEYJ106V	10M 1/16W	[M]
R653	ERJ3GEYJ101V	100 1/16W	[M]
R654	ERJ3GEYJ101V	100 1/16W	[M]
R655	ERJ3GEYJ101V	100 1/16W	[M]
R656	ERJ3GEYJ102V	1K 1/16W	[M]
R657	ERJ3GEYJ102V	1K 1/16W	[M]
R658	ERJ3GEYJ102V	1K 1/16W	[M]
R659	ERJ3GEYJ102V	1K 1/16W	[M]
R660	ERJ3GEYJ101V	100 1/16W	[M]
R662	ERJ3GEYJ101V	100 1/16W	[M]
R663	ERJ3GEYJ101V	100 1/16W	[M]
R664	ERJ3GEYJ102V	1K 1/16W	[M]
R665	ERJ3GEYJ102V	1K 1/16W	[M]
R666	ERJ3GEYJ102V	1K 1/16W	[M]
R667	ERJ3GEYJ103V	10K 1/16W	[M]
R668	ERJ3GEYJ682V	6.8K 1/16W	[M]
R669	ERJ3GEYJ104V	100K 1/16W	[M]
R670	ERJ3GEYJ104V	100K 1/16W	[M]
R671	ERJ3GEYJ104V	100K 1/16W	[M]
R672	ERJ3GEYJ333V	33K 1/16W	[M]
R673	ERJ3GEYJ681V	680 1/16W	[M]
R674	ERJ3GEYJ102V	1K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R675	ERJ3GEYJ102V	1K 1/16W	[M]
R676	ERJ3GEYJ101V	100 1/16W	[M]
R677	ERJ3GEYJ101V	100 1/16W	[M]
R678	ERJ3GEYJ101V	100 1/16W	[M]
R679	ERJ3GEYJ103V	10K 1/16W	[M]
R680	ERJ3GEYJ472V	4.7K 1/16W	[M]
R681	ERJ3GEYJ103V	10K 1/16W	[M]
R682	ERJ3GEYJ103V	10K 1/16W	[M]
R683	ERJ3GEYJ474V	470K 1/16W	[M]
R684	ERJ3GEYJ101V	100 1/16W	[M]
R685	ERJ3GEYJ102V	1K 1/16W	[M]
R686	ERJ3GEYJ472V	4.7K 1/16W	[M]
R687	ERJ3GEYJ392V	3.9K 1/16W	[M]
R688	ERJ3GEYJ821V	820 1/16W	[M]
R689	ERJ3GEYJ562V	5.6K 1/16W	[M]
R690	ERJ3GEYJ681V	680 1/16W	[M]
R691	ERJ3GEYJ681V	680 1/16W	[M]
R692	ERJ3GEYJ681V	680 1/16W	[M]
R693	ERJ3GEYJ221V	220 1/16W	[M]
R694	ERJ3GEYJ472V	4.7K 1/16W	[M]
R695	ERJ3GEYJ334V	330K 1/16W	[M]
R696	ERJ3GEYJ822V	8.2K 1/16W	[M]
R697	ERJ3GEYJ390V	39 1/16W	[M]
R698	ERJ3GEYJ824V	820K 1/16W	[M]
R699	ERJ3GEYJ561V	560 1/16W	[M]
R700	ERJ3GEYJ470V	47 1/16W	[M]
R701	ERJ3GEYJ4R7V	4.7 1/16W	[M]
R702	ERJ3GEYJ103V	10K 1/16W	[M]
R703	ERJ3GEYJ101V	100 1/16W	[M]
R704	ERJ3GEYJ102V	1K 1/16W	[M]
R705	ERJ3GEYJ154V	150K 1/16W	[M]
R706	ERJ3GEYJ102V	1K 1/16W	[M]
R707	ERJ3GEYJ393V	39K 1/16W	[M]
R708	ERJ3GEYJ223V	22K 1/16W	[M]
R709	ERJ3GEYJ333V	33K 1/16W	[M]
R710	ERJ3GEYJ1R0V	1 1/16W	[M]
R711	ERJ3GEYJ124V	120K 1/16W	[M]
R711	ERJ3GEYJ1R0V	1 1/16W	[M]
R712	ERJ3GEYJ103V	10K 1/16W	[M]
R712	ERJ3GEYJ471V	470 1/16W	[M]
R713	ERJ3GEYJ101V	100 1/16W	[M]
R713	ERJ3GEYJ102V	1K 1/16W	[M]
R714	ERJ3GEYJ102V	1K 1/16W	[M]
R714	ERJ3GEYJ121V	120 1/16W	[M]
R715	ERJ3GEYJ102V	1K 1/16W	[M]
R716	ERJ3GEYJ102V	1K 1/16W	[M]
R716	ERJ6GEYJ100V	10 1/10W	[M]
R717	ERJ3GEYJ101V	100 1/16W	[M]
R717	ERJ3GEYJ102V	1K 1/16W	[M]
R718	ERJ3GEYJ101V	100 1/16W	[M]
R718	ERJ3GEYJ102V	1K 1/16W	[M]
R719	ERJ3GEYJ102V	1K 1/16W	[M]
R720	ERJ3GEYJ102V	1K 1/16W	[M]
R721	ERJ3GEYJ101V	100 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R721	ERJ3GEYJ102V	1K 1/16W	[M]
R722	ERJ3GEYJ102V	1K 1/16W	[M]
R723	ERJ3GEYJ102V	1K 1/16W	[M]
R723	ERJ3GEYJ682V	6.8K 1/16W	[M]
R724	ERJ3GEYJ102V	1K 1/16W	[M]
R724	ERJ6GEYJ183V	18K 1/10W	[M]
R725	ERJ3GEYJ391V	390 1/16W	[M]
R726	ERJ3GEYJ103V	10K 1/16W	[M]
R727	ERJ3GEYJ102V	1K 1/16W	[M]
R727	ERJ3GEYJ682V	6.8K 1/16W	[M]
R728	ERJ3GEYJ392V	3.9K 1/16W	[M]
R728	ERJ3GEYJ470V	47 1/16W	[M]
R729	ERJ3GEYJ392V	3.9K 1/16W	[M]
R731	ERJ6GEYJ682V	6.8K 1/10W	[M]
R735	ERJ6GEYJ101V	100 1/10W	[M]
R736	ERJ3GEYJ100V	10 1/16W	[M]
R741	ERJ3GEYJ473V	47K 1/16W	[M]
R742	ERJ3GEYJ224V	220K 1/16W	[M]
R744	ERJ3GEYJ124V	120K 1/16W	[M]
R749	ERJ3GEYJ472V	4.7K 1/16W	[M]
R750	ERJ8GEYJ5R6V	5.6 1/8W	[M]
R753	ERJ3GEYJ100V	10 1/16W	[M]
R762	ERJ3GEYJ103V	10K 1/16W	[M]
R763	ERJ3GEYJ101V	100 1/16W	[M]
R764	ERJ3GEYJ101V	100 1/16W	[M]
R765	ERJ3GEYJ101V	100 1/16W	[M]
R766	ERJ3GEYJ103V	10K 1/16W	[M]
R767	ERJ3GEYJ101V	100 1/16W	[M]
R768	ERJ3GEYJ101V	100 1/16W	[M]
R769	ERJ3GEYJ101V	100 1/16W	[M]
R770	ERJ3GEYJ182V	1.8K 1/16W	[M]
R771	ERJ3GEYJ182V	1.8K 1/16W	[M]
R772	ERJ3GEYJ101V	100 1/16W	[M]
R773	ERJ3GEYJ101V	100 1/16W	[M]
R774	ERJ3GEYJ182V	1.8K 1/16W	[M]
R775	ERJ3GEYJ101V	100 1/16W	[M]
R776	ERJ3GEYJ101V	100 1/16W	[M]
R777	ERJ3GEYJ102V	1K 1/16W	[M]
R778	ERJ3GEYJ182V	1.8K 1/16W	[M]
R800	ERJ3GEYJ101V	100 1/16W	[M]
R801	ERJ3GEYJ101V	100 1/16W	[M]
R804	ERJ3GEYJ102V	1K 1/16W	[M]
R806	ERJ3GEYJ103V	10K 1/16W	[M]
R807	ERJ3GEYJ393V	39K 1/16W	[M]
R808	ERJ3GEYJ153V	15K 1/16W	[M]
R809	ERJ3GEYJ102V	1K 1/16W	[M]
R810	ERJ3GEYJ103V	10K 1/16W	[M]
R850	ERJ3GEYJ224V	220K 1/16W	[M]
R851	ERJ3GEYJ472V	4.7K 1/16W	[M]
R852	ERJ3GEYJ273V	27K 1/16W	[M]
R853	ERJ3GEYJ103V	10K 1/16W	[M]
R854	ERJ3GEYJ563V	56K 1/16W	[M]
R855	ERDS1FVJ180T	18 1/2W	[M] ⚠
R856	ERJ3GEYJ824V	820K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R857	ERJ3GEYJ824V	820K 1/16W	[M]
R858	ERJ3GEYJ103V	10K 1/16W	[M]
R859	ERJ3GEYJ224V	220K 1/16W	[M]
R860	ERJ3GEYJ101V	100 1/16W	[M]
R861	ERJ3GEYJ562V	5.6K 1/16W	[M]
R862	ERJ3GEYJ103V	10K 1/16W	[M]
R863	ERJ3GEYJ472V	4.7K 1/16W	[M]
R864	ERJ3GEYJ563V	56K 1/16W	[M]
R865	ERJ3GEYJ103V	10K 1/16W	[M]
R866	ERD25FVJ183T	18K 1/4W	[M]
R867	ERD25FVJ473T	47K 1/4W	[M]
R868	ERJ3GEYJ683V	68K 1/16W	[M]
R869	ERJ3GEYJ102V	1K 1/16W	[M]
R870	ERJ3GEYJ102V	1K 1/16W	[M]
R871	ERJ3GEYJ182V	1.8K 1/16W	[M]
R872	ERJ3GEYJ123V	12K 1/16W	[M]
R873	ERJ3GEYJ104V	100K 1/16W	[M]
R874	ERJ3GEYJ123V	12K 1/16W	[M]
R875	ERJ3GEYJ104V	100K 1/16W	[M]
R876	ERJ3GEYJ102V	1K 1/16W	[M]
R877	ERJ3GEYJ102V	1K 1/16W	[M]
R878	ERJ3GEYJ104V	100K 1/16W	[M]
R879	ERJ3GEYJ563V	56K 1/16W	[M]
R880	ERJ3GEYJ272V	2.7K 1/16W	[M]
R881	ERJ3GEYJ272V	2.7K 1/16W	[M]
R882	ERJ3GEYJ221V	220 1/16W	[M]
R883	ERJ3GEYJ472V	4.7K 1/16W	[M]
R884	ERJ3GEYJ103V	10K 1/16W	[M]
R885	ERJ3GEYJ103V	10K 1/16W	[M]
R886	ERJ3GEYJ103V	10K 1/16W	[M]
R887	ERJ3GEY0R00V	0 1/16W	[M]
R889	ERJ3GEYJ221V	220 1/16W	[M]
R972	ERDS2TJ821T	820 1/4W	[M]
R973	ERDS2TJ393T	39K 1/4W	[M]
R1000	ERJ3GEYJ103V	10K 1/16W	[M]
R1000	ERJ3GEYJ562V	5.6K 1/16W	[M]
R1001	ERJ3GEYJ101V	100 1/16W	[M]
R1001	ERJ3GEYJ681V	680 1/16W	[M]
R1002	ERJ3GEYJ101V	100 1/16W	[M]
R1002	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1003	ERJ3GEYJ101V	100 1/16W	[M]
R1003	ERJ3GEYJ103V	10K 1/16W	[M]
R1004	ERJ3GEYJ103Z	10K 1/16W	[M]
R1004	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1005	ERJ3GEYD750V	75 1/16W	[M]
R1005	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1006	ERJ3GEYJ103Z	10K 1/16W	[M]
R1006	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1007	ERJ3GEYD562V	5.6K 1/16W	[M]
R1008	ERJ3GEYJ103Z	10K 1/16W	[M]
R1008	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1009	ERJ3GEYD912V	9.1K 1/16W	[M]
R1010	ERJ3GEYJ103Z	10K 1/16W	[M]
R1011	ERJ3GEYJ103Z	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1012	ERJ3GEYD332V	3.3K 1/16W	[M]
R1013	ERJ3GEYD750V	75 1/16W	[M]
R1014	ERJ3GEYD750V	75 1/16W	[M]
R1020	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1021	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1050	ERJ3GEYJ100V	10 1/16W	[M]
R1101	ERDS2TJ270T	27 1/4W	[M]
R1102	ERDS2TJ152T	1.5K 1/4W	[M]
R1103	ERDS2TJ183T	18K 1/4W	[M]
R1104	ERDS2TJ103T	10K 1/4W	[M]
R1105	ERDS2TJ222T	2.2K 1/4W	[M]
R1106	ERDS2TJ104T	100K 1/4W	[M]
R1107	ERDS2TJ102T	1K 1/4W	[M]
R1109	ERDS2TJ392T	3.9K 1/4W	[M]
R1110	ERDS2TJ333T	33K 1/4W	[M]
R1111	ERDS2TJ102T	1K 1/4W	[M]
R1201	ERDS2TJ270T	27 1/4W	[M]
R1202	ERDS2TJ152T	1.5K 1/4W	[M]
R1203	ERDS2TJ183T	18K 1/4W	[M]
R1204	ERDS2TJ103T	10K 1/4W	[M]
R1205	ERDS2TJ222T	2.2K 1/4W	[M]
R1206	ERDS2TJ104T	100K 1/4W	[M]
R1207	ERDS2TJ102T	1K 1/4W	[M]
R1209	ERDS2TJ392T	3.9K 1/4W	[M]
R1210	ERDS2TJ333T	33K 1/4W	[M]
R1211	ERDS2TJ102T	1K 1/4W	[M]
R1302	ERDS2TJ101T	100 1/4W	[M]
R1303	ERDS2TJ475T	4.7M 1/4W	[M]
R1304	ERDS2TJ223T	22K 1/4W	[M]
R1305	ERDS2TJ103T	10K 1/4W	[M]
R1307	ERDS2TJ220T	22 1/4W	[M]
R1308	ERDS2TJ220T	22 1/4W	[M]
R1309	ERDS2TJ471T	470 1/4W	[M]
R1313	ERDS2TJ103T	10K 1/4W	[M]
R1314	ERDS2TJ102T	1K 1/4W	[M]
R1317	ERDS2TJ223T	22K 1/4W	[M]
R1318	ERDS2TJ103T	10K 1/4W	[M]
R1319	ERDS2TJ123T	12K 1/4W	[M]
R1320	ERDS2TJ104T	100K 1/4W	[M]
R1321	ERDS2TJ470T	47 1/4W	[M]
R1322	ERDS2TJ823T	82K 1/4W	[M]
R1323	ERDS2TJ332T	3.3K 1/4W	[M]
R1326	ERDS2TJ562T	5.6K 1/4W	[M]
R1327	ERDS2TJ472T	4.7K 1/4W	[M]
R1328	ERDS2TJ153T	15K 1/4W	[M]
R1329	ERDS2TJ472T	4.7K 1/4W	[M]
R1330	ERD2FCVJ4R7T	4.7 1/4W	[M]
R1331	ERDS2TJ752T	7.5K 1/4W	[M]
R1332	ERDS2TJ103T	10K 1/4W	[M]
R1333	ERD2FCVJ4R7T	4.7 1/4W	[M]
R1334	ERDS2TJ223T	22K 1/4W	[M]
R1335	ERDS2TJ152T	1.5K 1/4W	[M]
R1336	ERDS2TJ152T	1.5K 1/4W	[M]
R1337	ERDS2TJ103T	10K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1339	ERDS2TJ102T	1K 1/4W	[M]
R1341	ERDS2TJ681T	680 1/4W	[M]
R1343	ERDS2TJ332T	3.3K 1/4W	[M]
R1344	ERDS2TJ273T	27K 1/4W	[M]
R1345	ERDS2TJ102T	1K 1/4W	[M]
R1346	ERDS2TJ103T	10K 1/4W	[M]
		CAPACITORS	
C1	ECEA1CKA101B	100 16V	[M]
C2	ECBT1E103ZF5	0.01 25V	[M]
C100	ECUV1E103KBV	0.01 25V	[M]
C101	ECUV1H102KBV	1000P 50V	[M]
C102	ECUV1C104KBV	0.1 16V	[M]
C103	ECUV1H100DCV	10P 50V	[M]
C104	ECA0JAK101XB	100 6.3V	[M]
C105	ECUV1E103KBV	0.01 25V	[M]
C106	ECUV1H100DCV	10P 50V	[M]
C107	ECUV1H100DCV	10P 50V	[M]
C108	ECUV1H100DCV	10P 50V	[M]
C109	ECEA1AKA101B	100 10V	[M]
C110	ECUV1H102KBV	1000P 50V	[M]
C111	ECUV1H330JCV	33P 50V	[M]
C112	ECUV1H330JCV	33P 50V	[M]
C113	ECUV1C104KBV	0.1 16V	[M]
C114	ECA0JAK101XB	100 6.3V	[M]
C115	ECUV1H471JCV	470P 50V	[M]
C118	ECUV1A474ZFV	0.47 10V	[M]
C201	ECUV1H101JCV	100P 50V	[M]
C202	ECUV1H101JCV	100P 50V	[M]
C203	ECUV1H221JCV	220P 50V	[M]
C204	ECUV1H101JCV	100P 50V	[M]
C207	ECA1HAK4R7XB	4.7 50V	[M]
C208	ECA1HAK2R2XB	2.2 50V	[M]
C209	ECA1HAK2R2XB	2.2 50V	[M]
C210	ECA1HAK2R2XB	2.2 50V	[M]
C211	ECA1CAK100XB	10 16V	[M]
C212	ECA1HAKR33XB	0.33 50V	[M]
C213	ECA1HAKR33XB	0.33 50V	[M]
C214	ECUVNA154KBV	0.15 10V	[M]
C215	ECUVNA154KBV	0.15 10V	[M]
C216	ECUV1E273KBV	0.027 25V	[M]
C217	ECUV1E273KBV	0.027 25V	[M]
C218	ECUV1E562KBV	5600P 25V	[M]
C219	ECUV1E562KBV	5600P 25V	[M]
C220	ECUV1H182KBV	1800P 50V	[M]
C221	ECUV1C683KBV	0.068 16V	[M]
C222	ECUV1C683KBV	0.068 16V	[M]
C223	ECUV1C683KBV	0.068 16V	[M]
C224	ECA1HAK010XB	1 50V	[M]
C225	ECUV1E473KBV	0.047 25V	[M]
C226	ECUV1H472KBV	4700P 50V	[M]
C227	ECA1HAK3R3XB	3.3 50V	[M]
C228	ECUV1C683KBV	0.068 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C229	ECUV1E103KBV	0.01 25V	[M]
C230	ECA1CAK100XB	10 16V	[M]
C231	ECUV1H681KBV	680P 50V	[M]
C232	ECUV1H101JCV	100P 50V	[M]
C233	ECUV1H470JCV	47P 50V	[M]
C234	ECUV1H102KBV	1000P 50V	[M]
C235	ECA1HAK010XB	1 50V	[M]
C236	ECUV1H332KBV	3300P 50V	[M]
C250	ECA1CAK100XB	10 16V	[M]
C251	ECUV1H470JCV	47P 50V	[M]
C300	ECUV1C104KBV	0.1 16V	[M]
C301	ECA1CAK100XB	10 16V	[M]
C302	ECA1CAK100XB	10 16V	[M]
C303	ECUV1H101JCV	100P 50V	[M]
C304	ECUV1H101JCV	100P 50V	[M]
C305	ECUV1A224KBV	0.22 10V	[M]
C306	ECA1CAK100XB	10 16V	[M]
C307	ECA1CAK100XB	10 16V	[M]
C308	ECUV1C104KBV	0.1 16V	[M]
C309	ECA1CAM221XB	220 16V	[M]
C310	ECUV1A224KBV	0.22 10V	[M]
C311	ECUV1A224KBV	0.22 10V	[M]
C312	ECUV1C104KBV	0.1 16V	[M]
C313	ECUV1C104KBV	0.1 16V	[M]
C314	ECA1CAK100XB	10 16V	[M]
C315	ECA1HAK2R2XB	2.2 50V	[M]
C316	ECUV1H221JCV	220P 50V	[M]
C317	ECUV1C104KBV	0.1 16V	[M]
C318	ECUV1C104KBV	0.1 16V	[M]
C319	ECA1CAK100XB	10 16V	[M]
C320	ECA1VAM470XB	47 35V	[M]
C321	ECUVNC393KBV	0.039 16V	[M]
C322	ECUV1E103KBV	0.01 25V	[M]
C323	ECUV1E333KBV	0.033 25V	[M]
C324	ECEA1HKNR47B	0.47 50V	[M]
C325	ECA1CAK100XB	10 16V	[M]
C326	ECUV1H332KBV	3300P 50V	[M]
C327	ECUV1H332KBV	3300P 50V	[M]
C328	ECUV1E153KBV	0.015 25V	[M]
C329	ECA1HAK4R7XB	4.7 50V	[M]
C330	ECA1HAK4R7XB	4.7 50V	[M]
C331	ECA1HAK010XB	1 50V	[M]
C332	ECUV1C333KBV	0.033 16V	[M]
C333	ECUV1E103KBV	0.01 25V	[M]
C371	ECUV1C104KBV	0.1 16V	[M]
C401	ECUV1H101JCV	100P 50V	[M]
C402	ECUV1H101JCV	100P 50V	[M]
C403	ECUV1H221JCV	220P 50V	[M]
C404	ECUV1H101JCV	100P 50V	[M]
C407	ECA1HAK4R7XB	4.7 50V	[M]
C408	ECA1HAK2R2XB	2.2 50V	[M]
C409	ECA1HAK2R2XB	2.2 50V	[M]
C410	ECA1HAK2R2XB	2.2 50V	[M]
C411	ECA1CAK100XB	10 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C412	ECA1HAKR33XB	0.33 50V	[M]
C413	ECA1HAKR33XB	0.33 50V	[M]
C414	ECUVNA154KBV	0.15 10V	[M]
C415	ECUVNA154KBV	0.15 10V	[M]
C416	ECUV1E273KBV	0.027 25V	[M]
C417	ECUV1E273KBV	0.027 25V	[M]
C418	ECUV1E562KBV	5600P 25V	[M]
C419	ECUV1E562KBV	5600P 25V	[M]
C420	ECUV1H182KBV	1800P 50V	[M]
C421	ECUV1C683KBV	0.068 16V	[M]
C422	ECUV1C683KBV	0.068 16V	[M]
C423	ECUV1C683KBV	0.068 16V	[M]
C424	ECA1HAK010XB	1 50V	[M]
C425	ECUV1C104KBV	0.1 16V	[M]
C426	ECUV1E473KBV	0.047 25V	[M]
C427	ECA1HAK3R3XB	3.3 50V	[M]
C428	ECUV1C683KBV	0.068 16V	[M]
C429	ECUV1E103KBV	0.01 25V	[M]
C430	ECA1CAK100XB	10 16V	[M]
C431	ECUV1H681KBV	680P 50V	[M]
C432	ECUV1H101JCV	100P 50V	[M]
C433	ECUV1H470JCV	47P 50V	[M]
C434	ECUV1H102KBV	1000P 50V	[M]
C435	ECA1HAK010XB	1 50V	[M]
C436	ECUV1H332KBV	3300P 50V	[M]
C450	ECA1CAK100XB	10 16V	[M]
C451	ECUV1H470JCV	47P 50V	[M]
C501	ECBT1H102KB5	1000P 50V	[M]
C502	ECBT1H102KB5	1000P 50V	[M]
C503	ECBT1H331KB5	330P 50V	[M]
C504	ECBT1H331KB5	330P 50V	[M]
C506	RCEA1H222-S	2200P 50V	[M]
C507	RCEA1H222-S	2200P 50V	[M]
C508	RCEA1E222-S	2200P 25V	[M]
C511	ECKR1H103ZF5	0.01 50V	[M]
C512	ECA1CAK101XB	100 16V	[M]
C518	ECKR1H103ZF5	0.01 50V	[M]
C519	ECA1HAK100XB	10 50V	[M]
C520	ECKR1H103ZF5	0.01 50V	[M]
C521	ECA1EAK330XB	33 25V	[M]
C523	ECA1HAK010XB	1 50V	[M]
C524	ECA1HAK010XB	1 50V	[M]
C526	ECA1HM330B	33 50V	[M]
C527	ECKR1H103ZF5	0.01 50V	[M]
C528	ECKR1H103ZF5	0.01 50V	[M]
C530	ECKR2H103ZF5	0.01 500V	[M]
C531	ECKR2H103ZF5	0.01 500V	[M]
C532	ECKR2H103ZF5	0.01 500V	[M]
C533	ECQV1H104JZ3	0.1 50V	[M]
C534	ECKR2H103ZF5	0.01 500V	[M]
C536	ECA0JAK221XB	220 6.3V	[M]
C537	ECBT1H102KB5	1000P 50V	[M]
C539	ECKR1H103ZF5	0.01 50V	[M]
C540	ECBT1H150JC5	15P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C541	ECBT1H150JC5	15P 50V	[M]
C542	ECEA2AU100B	10 100V	[M]
C543	ECA2AM100B	10 100V	[M]
C544	ECBT1H104KB5	0.1 50V	[M]
C545	ECBT1H104KB5	0.1 50V	[M]
C546	ECBT1H104KB5	0.1 50V	[M]
C547	ECBT1H104KB5	0.1 50V	[M]
C553	ECA1HAK3R3XB	3.3 50V	[M]
C554	ECA1HAK3R3XB	3.3 50V	[M]
C575	ECA1HAK4R7XB	4.7 50V	[M]
C576	RCEA1C102B-S	1000P 16V	[M]
C577	RCEA1C102B-S	1000P 16V	[M]
C578	ECKR1H103ZF5	0.01 50V	[M]
C579	ECKR1H102ZF5	1000P 50V	[M]
C580	ECKR1H103ZF5	0.01 50V	[M]
C581	ECA1HM470B	47 50V	[M]
C582	ECKR2H103ZF5	0.01 500V	[M]
C583	ECKR1H103ZF5	0.01 50V	[M]
C585	ECA1EM101B	100 25V	[M]
C600	ECUV1E223KBV	0.022 25V	[M]
C601	ECUV1E223KBV	0.022 25V	[M]
C612	ECUV1C104KBV	0.1 16V	[M]
C613	ECUV1H681KBV	680P 50V	[M]
C614	ECUV1H681KBV	680P 50V	[M]
C615	ECUV1H101JCV	100P 50V	[M]
C616	ECUV1H101JCV	100P 50V	[M]
C623	ECA0JAK101XB	100 6.3V	[M]
C624	ECUV1C104KBV	0.1 16V	[M]
C625	RCEA0J102B-S	1000P 6.3V	[M]
C626	ECUV1H102KBV	1000P 50V	[M]
C628	ECA1CAK220XB	22 16V	[M]
C629	ECUV1H102KBV	1000P 50V	[M]
C630	ECUV1H561KBV	560P 50V	[M]
C631	ECUV1H561KBV	560P 50V	[M]
C632	ECUV1H102KBV	1000P 50V	[M]
C633	ECUV1H102KBV	1000P 50V	[M]
C634	ECUV1H102KBV	1000P 50V	[M]
C635	ECUV1H561KBV	560P 50V	[M]
C636	ECUV1H561KBV	560P 50V	[M]
C637	ECUV1H561KBV	560P 50V	[M]
C638	ECUV1H561KBV	560P 50V	[M]
C639	ECUV1H561KBV	560P 50V	[M]
C640	ECUV1H331KBV	330P 50V	[M]
C641	ECUV1H331KBV	330P 50V	[M]
C642	ECUV1H331KBV	330P 50V	[M]
C647	ECUV1H103KBV	0.01 50V	[M]
C651	ECUV1H180JCV	18P 50V	[M]
C652	ECUV1H101JCV	100P 50V	[M]
C654	ECUV1H220JCV	22P 50V	[M]
C655	ECUV1H101JCV	100P 50V	[M]
C656	ECUV1H390JCV	39P 50V	[M]
C657	ECUV1H390JCV	39P 50V	[M]
C658	ECA1HAK010XB	1 50V	[M]
C659	ECUV1H220JCV	22P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C660	ECUV1H102KBV	1000P 50V	[M]
C661	ECUV1H220JCV	22P 50V	[M]
C662	ECA1HAK2R2XB	2.2 50V	[M]
C663	ECUV1H102KBV	1000P 50V	[M]
C664	ECUV1H102KBV	1000P 50V	[M]
C668	ECUV1H330JCV	33P 50V	[M]
C669	ECUV1H330JCV	33P 50V	[M]
C670	ECUV1H102KBV	1000P 50V	[M]
C674	ECEA1EKS4R7B	4.7 25V	[M]
C690	ECUV1E223KBV	0.022 25V	[M]
C691	ECA1CAK101XB	100 16V	[M]
C692	ECUV1H102KBV	1000P 50V	[M]
C693	ECA1HAK010XB	1 50V	[M]
C694	ECUV1H101JCV	100P 50V	[M]
C695	ECUV1H102KBV	1000P 50V	[M]
C696	ECA1HAK010XB	1 50V	[M]
C697	ECUV1E473KBV	0.047 25V	[M]
C698	ECA1HAKR33XB	0.33 50V	[M]
C699	ECUV1H103KBV	0.01 50V	[M]
C701	ECEA0JKA330I	33 6.3V	[M]
C702	ECUVNC104KBV	0.1 16V	[M]
C703	ECEA0JKA101I	100 6.3V	[M]
C704	ECUVNC104KBV	0.1 16V	[M]
C706	ECUV1H272KBV	2700P 50V	[M]
C707	ECUV1E273KBV	0.027 25V	[M]
C710	ECUV1E103KBV	0.01 25V	[M]
C710	ECUV1H121KCV	120P 50V	[M]
C711	ECUZNC104ZFV	0.1 16V	[M]
C712	ECA0JAM102XB	1000 6.3V	[M]
C712	ECUZNC104ZFV	0.1 16V	[M]
C713	ECA0JAK101XB	100 6.3V	[M]
C713	ECUVNC104KBV	0.1 16V	[M]
C714	ECEA0JKA101I	100 6.3V	[M]
C714	ECUV1H102KBV	1000P 50V	[M]
C715	ECUV1H102KBV	1000P 50V	[M]
C715	ECUV1H272KBV	2700P 50V	[M]
C716	ECA0JAK101XB	100 6.3V	[M]
C716	ECUV1H122KBV	1200P 50V	[M]
C717	ECA0JAK101XB	100 6.3V	[M]
C717	ECUZNC104ZFV	0.1 16V	[M]
C718	ECUV1A474ZFV	0.47 10V	[M]
C718	ECUVNJ474KBV	0.47 6.3V	[M]
C719	ECUV1C104KBV	0.1 16V	[M]
C720	ECUV1H102KBV	1000P 50V	[M]
C721	ECUV1H100DCV	10P 50V	[M]
C722	ECUV1H100DCV	10P 50V	[M]
C723	ECEA1AKA221I	220 10V	[M]
C724	ECUZNE104MBN	0.1 25V	[M]
C725	ECUV1H102KBV	1000P 50V	[M]
C726	ECUV1H102KBV	1000P 50V	[M]
C730	ECUZNC104ZFV	0.1 16V	[M]
C731	ECEA0JKA221I	220 6.3V	[M]
C732	ECEA0JKA221I	220 6.3V	[M]
C733	ECUVNC104KBV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C734	ECEA1AKA221I	220 10V	[M]
C735	ECUZNC104ZFV	0.1 16V	[M]
C736	ECUVNC104ZFV	0.1 16V	[M]
C737	ECUVNC104ZFV	0.1 16V	[M]
C738	ECUV1H103KBN	0.01 50V	[M]
C739	ECUV1H152KBV	1500P 50V	[M]
C742	ECUV1E273KBV	0.027 25V	[M]
C743	ECUVNC104ZFV	0.1 16V	[M]
C744	ECUV1H223KBV	0.022 50V	[M]
C745	ECUV1H102KBV	1000P 50V	[M]
C747	ECUV1H181KCV	180P 50V	[M]
C749	ECUV1H182KBV	1800P 50V	[M]
C750	ECUZNE104MBN	0.1 25V	[M]
C751	ECUVNC104KBV	0.1 16V	[M]
C752	ECUV1H152KBV	1500P 50V	[M]
C753	ECUV1H471KBM	470P 50V	[M]
C754	ECA0JAK101XB	100 6.3V	[M]
C755	ECUV1H102KBV	1000P 50V	[M]
C756	ECUV1C104KBV	0.1 16V	[M]
C757	ECUV1C104KBV	0.1 16V	[M]
C770	ECUVNC104KBV	0.1 16V	[M]
C801	ECA0JAK101XB	100 6.3V	[M]
C802	ECA1CAM221XB	220 16V	[M]
C803	ECA1CAK470XB	47 16V	[M]
C804	ECEA1AKA101B	100 10V	[M]
C818	ECEA1AKA101B	100 10V	[M]
C820	EEUFC1A681LE	680 10V	[M]
C821	ECUV1A224KBV	0.22 10V	[M]
C822	ECA1EM101B	100 25V	[M]
C824	ECA1HAK4R7XB	4.7 50V	[M]
C850	ECA1HAK4R7XB	4.7 50V	[M]
C851	ECEA0JKA221B	220 6.3V	[M]
C852	ECA0JAK101XB	100 6.3V	[M]
C853	ECUV1C104KBV	0.1 16V	[M]
C854	ECA1CAK330XB	33 16V	[M]
C855	ECUVNA154KBV	0.15 10V	[M]
C856	ECUVNA154KBV	0.15 10V	[M]
C857	ECUVNA154KBV	0.15 10V	[M]
C858	ECUVNA154KBV	0.15 10V	[M]
C859	ECQV1H474JZ3	0.47 50V	[M]
C860	ECEA1HKA2R2B	2.2 50V	[M]
C861	ECEA1HKA100B	10 50V	[M]
C862	ECUV1A474KBV	0.47 10V	[M]
C863	ECUV1H820JCV	82P 50V	[M]
C865	ECUV1H101JCV	100P 50V	[M]
C866	ECUV1H101JCV	100P 50V	[M]
C1000	ECUV1C473KBV	0.047 16V	[M]
C1000	ECUV1H100DCV	10P 50V	[M] ⚠
C1001	ECUV1C104KBV	0.1 16V	[M]
C1001	ECUV1H100DCV	10P 50V	[M] ⚠
C1002	ECUV1C104KBV	0.1 16V	[M]
C1002	ECUZNC104ZFV	0.1U 16V	[M]
C1003	ECUV1C104KBV	0.1 16V	[M]
C1003	ECUZNC104ZFV	0.1U 16V	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
C1004	ECUV1C104KBV	0.1 16V	[M]
C1004	ECUZNC104ZFV	0.1U 16V	[M]
C1005	ECUV1C104KBV	0.1 16V	[M]
C1005	ECUZNC104ZFV	0.1U 16V	[M]
C1006	ECUV1C104KBV	0.1 16V	[M]
C1006	ECUZNC104ZFV	0.1U 16V	[M]
C1007	ECUV1C104KBV	0.1 16V	[M]
C1007	ECUZNC104ZFV	0.1U 16V	[M]
C1008	ECUV1C104KBV	0.1 16V	[M]
C1008	ECUZNC104ZFV	0.1U 16V	[M]
C1009	ECUV1C104KBV	0.1 16V	[M]
C1009	ECUZNC104ZFV	0.1U 16V	[M]
C1010	ECUV1C104KBV	0.1 16V	[M]
C1010	ECUZNC104ZFV	0.1U 16V	[M]
C1011	ECUV1C223KBV	0.022 16V	[M]
C1011	ECUZNC104ZFV	0.1U 16V	[M]
C1012	ECUV1C223KBV	0.022 16V	[M]
C1012	ECUZNC104ZFV	0.1U 16V	[M]
C1013	ECUV1H101KCV	100P 50V	[M]
C1014	ECUV1H151KBV	150P 50V	[M]
C1015	ECUV1H271KBV	270P 50V	[M]
C1016	ECUZNC104ZFV	0.1U 16V	[M]
C1017	ECUZNC104ZFV	0.1U 16V	[M]
C1018	ECUV1H331KBV	330P 50V	[M]
C1019	ECUV1H101KCV	100P 50V	[M]
C1020	ECUZNC104ZFV	0.1U 16V	[M]
C1021	ECUV1H101KCV	100P 50V	[M]
C1101	ECA1HAK010XB	1 50V	[M]
C1102	ECBT1H102KB5	1000P 50V	[M]
C1103	ECA1CAK101XB	100 16V	[M]
C1104	ECFR1C273KR	0.027 16V	[M]
C1105	ECBT1H471KB5	470P 50V	[M]
C1106	ECA1HAK2R2XB	2.2 50V	[M]
C1107	ECBT1C152KR5	1500P 16V	[M]
C1108	ECA1CAK100XB	10 16V	[M]
C1109	ECA1HAK3R3XB	3.3 50V	[M]
C1121	ECBT1H102KB5	1000P 50V	[M]
C1122	ECBT1H103KB5	0.01 50V	[M]
C1123	ECBT1H271KB5	270P 50V	[M]
C1201	ECA1HAK010XB	1 50V	[M]
C1202	ECBT1H102KB5	1000P 50V	[M]
C1203	ECA1CAK101XB	100 16V	[M]
C1204	ECFR1C273KR	0.027 16V	[M]
C1205	ECBT1H471KB5	470P 50V	[M]
C1206	ECA1HAK2R2XB	2.2 50V	[M]
C1207	ECBT1H152KB5	1500P 50V	[M]
C1208	ECA1CAK100XB	10 16V	[M]
C1209	ECA1HAK3R3XB	3.3 50V	[M]
C1221	ECBT1H102KB5	1000P 50V	[M]
C1222	ECBT1H103KB5	0.01 50V	[M]
C1223	ECBT1H271KB5	270P 50V	[M]
C1301	ECA1HAK0R1XB	0.1 50V	[M]
C1302	ECFR1C333KR	0.033 16V	[M]
C1303	ECFR1C333KR	0.033 16V	[M]

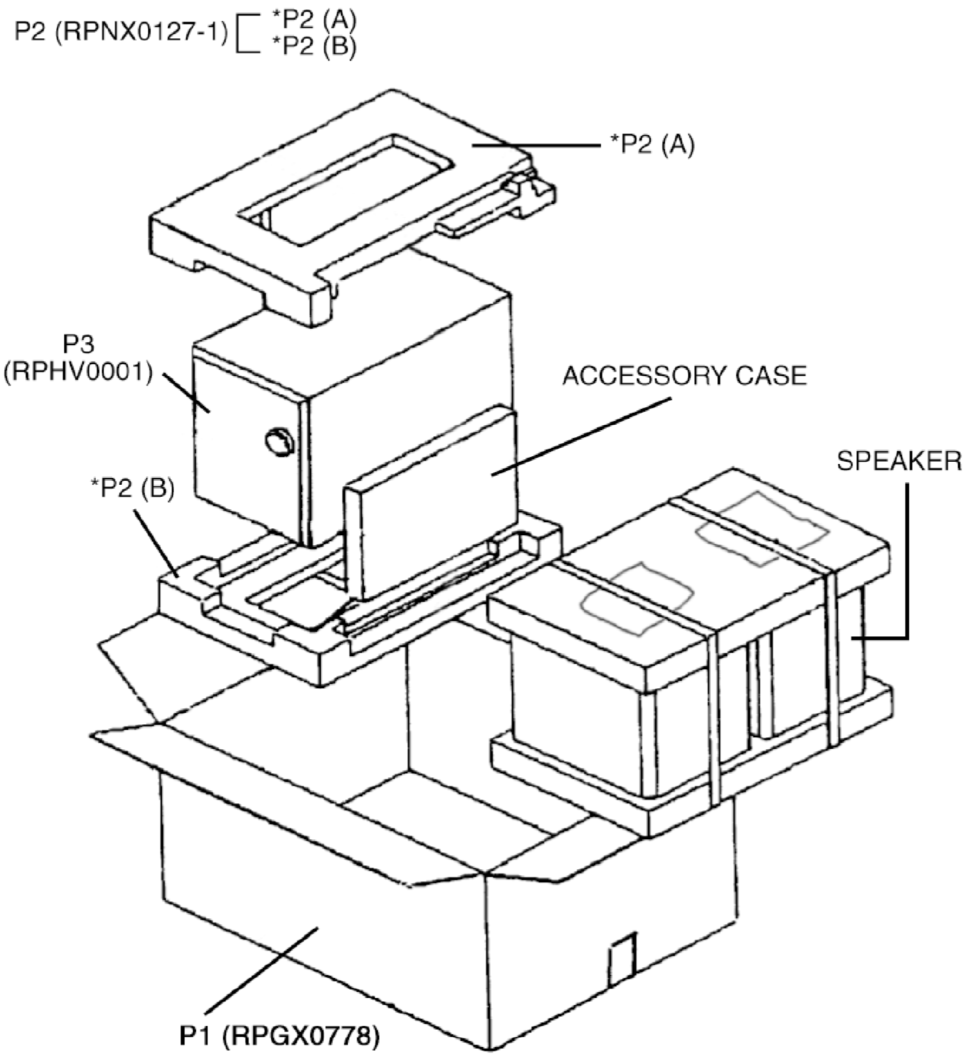
Ref. No.	Part No.	Part Name & Description	Remarks
C1304	ECA1HAK4R7XB	4.7 50V	[M]
C1305	ECA1CAK330XB	33 16V	[M]
C1306	ECA1CAK100XB	10 16V	[M]
C1307	ECEA1AKA221Q	220 10V	[M]
C1308	ECA1CAK220XB	22 16V	[M]
C1310	ECA1HAK0R1XB	0.1 50V	[M]
C1311	ECA1CAK470XB	47 16V	[M]
C1312	ECBT1C332KR5	3300P 16V	[M]
C1314	ECBT1C222KR5	2200P 16V	[M]
C1315	ECBT1C222KR5	2200P 16V	[M]
C1316	ECBT1H102KB5	1000P 50V	[M]
C1317	ECBT1H102KB5	1000P 50V	[M]
C1318	ECQV1H473JZ3	0.047 50V	[M]
C1319	ECA1CAK101XB	100 16V	[M]
C1320	ECA1HAK010XB	1 50V	[M]
C1321	ECQP1472JZT	4700P 100V	[M]
C1322	ECQP2A102JZT	1000P 100V	[M]
C1323	ECEA1HN010SB	1 50V	[M]
C1324	ECA1CAK470XB	47 16V	[M]
C1325	ECBT1C103MS5	0.01 16V	[M]
C1326	ECA1CAK100XB	10 16V	[M]
C1327	ECBT1H103KB5	0.01 50V	[M]
		CHIP JUMPER	
RJ701	ERJ3GEY0R00V	0 1/16W	[M]
RJ702	ERJ3GEY0R00V	0 1/16W	[M]
RJ703	ERJ3GEY0R00V	0 1/16W	[M]
RJ705	ERJ3GEY0R00V	0 1/16W	[M]
RJ706	ERJ3GEY0R00V	0 1/16W	[M]
RJ707	ERJ3GEY0R00V	0 1/16W	[M]
RJ708	ERJ3GEY0R00V	0 1/16W	[M]
RJ709	ERJ3GEY0R00V	0 1/16W	[M]
RJ710	ERJ3GEY0R00V	0 1/16W	[M]
RJ711	ERJ3GEY0R00V	0 1/16W	[M]
RJ712	ERJ3GEY0R00V	0 1/16W	[M]
RJ713	ERJ3GEY0R00V	0 1/16W	[M]
RJ714	ERJ3GEY0R00V	0 1/16W	[M]
RJ715	ERJ3GEY0R00V	0 1/16W	[M]
RJ716	ERJ3GEY0R00V	0 1/16W	[M]
RJ731	ERJ6GEY0R00V	0 1/10W	[M]
RJ732	ERJ6GEY0R00V	0 1/10W	[M]
RJ733	ERJ6GEY0R00V	0 1/10W	[M]
RJ734	ERJ6GEY0R00V	0 1/10W	[M]
RJ761	ERJ8GEY0R00V	0 1/8W	[M]
RJ762	ERJ8GEY0R00V	0 1/8W	[M]
RJ763	ERJ8GEY0R00V	0 1/8W	[M]
RJ764	ERJ8GEY0R00V	0 1/8W	[M]
RJ765	ERJ8GEY0R00V	0 1/8W	[M]
RJ767	ERJ8GEY0R00V	0 1/8W	[M]
RJ768	ERJ8GEY0R00V	0 1/8W	[M]
RJ769	ERJ8GEY0R00V	0 1/8W	[M]
RJ770	ERJ8GEY0R00V	0 1/8W	[M]
RJ771	ERJ8GEY0R00V	0 1/8W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
RJ772	ERJ8GEY0R00V	0 1/8W	[M]
RJ773	ERJ8GEY0R00V	0 1/8W	[M]
JA3	ERJ3GEY0R00V	0 1/16W	[M]
JA4	ERJ3GEY0R00V	0 1/16W	[M]
JA5	ERJ3GEY0R00V	0 1/16W	[M]
JA6	ERJ3GEY0R00V	0 1/16W	[M]
JA7	ERJ3GEY0R00V	0 1/16W	[M]
JA8	ERJ3GEY0R00V	0 1/16W	[M]
JA9	ERJ3GEY0R00V	0 1/16W	[M]
JA10	ERJ3GEY0R00V	0 1/16W	[M]
JA11	ERJ3GEY0R00V	0 1/16W	[M]
JA12	ERJ3GEY0R00V	0 1/16W	[M]
JA13	ERJ3GEY0R00V	0 1/16W	[M]
JA15	ERJ3GEY0R00V	0 1/16W	[M]
JA16	ERJ3GEY0R00V	0 1/16W	[M]
JA17	ERJ3GEY0R00V	0 1/16W	[M]
JA21	ERJ3GEY0R00V	0 1/16W	[M]
JA22	ERJ3GEY0R00V	0 1/16W	[M]
JA24	ERJ3GEY0R00V	0 1/16W	[M]
JA25	ERJ3GEY0R00V	0 1/16W	[M]
		TEST JUMPER	
TJ701	EYF8CU	TEST JUMPER	[M]

19.5. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX0778	PACKING CASE	[M]
P2	RPNX0127-1	POLYFOAM	[M]
P3	RPHV0001	MIRAMAT SHEET	[M]
		ACCESSORIES	
A1	N2QAJB000031	REMOTE CONTROL	[M]
A1-1	251200F1F	R/C BATTERY COVER	[M]
A2	RJA0019-2K	AC CORD (SF)	[M] ⚠
A3	RQT5829-G	O/I BOOK (En/Cn/Ar)	[M]
A4	RSA0006-L	FM ANTENNA WIRE	[M]
A5	RSA0033A	AM LOOP ANTENNA	[M]
A6	RJL1P016B15A	VIDEO CABLE	[M]
A7	RJP1SG04-H	AC CORD ADAPTOR	[M]

19.6. Packaging

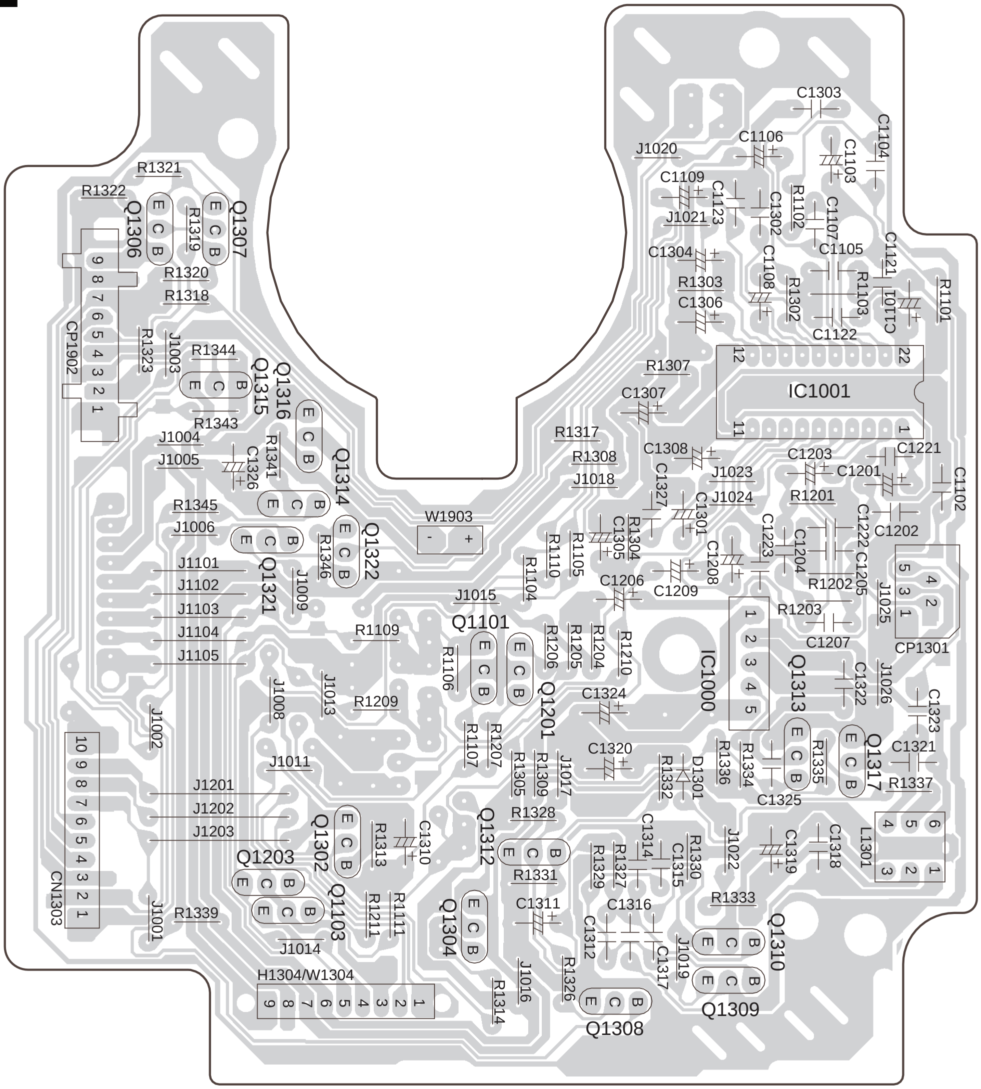

P2 (RPNX0127-1)
*P2 (A)
*P2 (B)
*P2 (A)
P3
(RPHV0001)
ACCESSORY CASE
SPEAKER
*P2 (B)
P1 (RPGX0778)

Printed in Singapore / M10800001 E/N/K/J/L/FLE

A B C D E F G

1 2 3 4 5 6 7 8 9

H DECK P.C.B. (REPX0240A)



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R1322
Q1306
Q1307
R1319
E C B
E C B
R1320
R1318
CP1902
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R1323
J1003
R1344
Q1315
Q1316
R1343
J1004
J1005
R1341
C1326
Q1314
R1345
J1006
Q1322
R1346
Q1321
J1009
J1101
J1102
J1103
J1104
J1105
J1002
J1008
J1013
CN1303
10 9 8 7 6 5 4 3 2 1
J1011
J1201
J1202
J1203
Q1203
Q1302
Q1103
R1313
C1310
R1211
R1111
J1001
R1339
J1014
H1304/W1304
9 8 7 6 5 4 3 2 1
W1903
- +
J1015
Q1101
R1109
R1209
R1106
R1107
R1207
Q1201
R1206
R1205
R1204
R1210
R1110
R1105
R1104
R1304
C1305
C1206
C1209
C1208
C1324
C1320
R1305
R1309
J1017
R1332
D1301
R1336
R1334
R1335
Q1317
Q1312
R1328
R1331
Q1304
R1329
R1327
C1314
C1315
R1330
J1022
C1319
C1318
L1301
6 5 4 3 2 1
C1311
C1316
C1312
C1317
J1019
R1333
Q1310
Q1309
Q1308
R1326
J1016
R1314
IC1000
1 2 3 4 5
Q1313
C1325
C1321
R1337
C1322
J1026
C1323
C1303
C1106
C1104
C1103
J1020
C1109
C1123
C1302
R1102
C1107
J1021
C1304
C1108
C1105
C1121
R1303
R1302
R1103
C1101
R1101
C1306
C1122
R1307
C1307
IC1001
12 22 11 1
R1317
R1308
J1018
C1308
C1327
J1023
C1203
C1201
C1221
C1102
J1024
C1301
R1201
C1202
C1223
C1204
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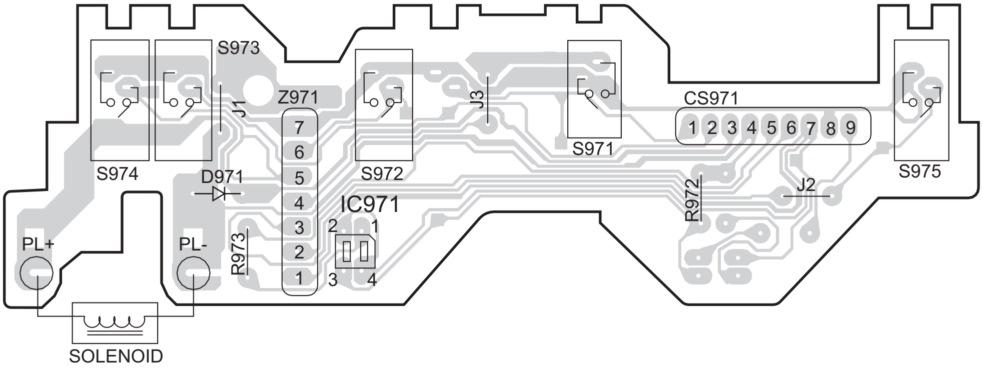
I DECK MECHANISM P.C.B. (REPX0108)



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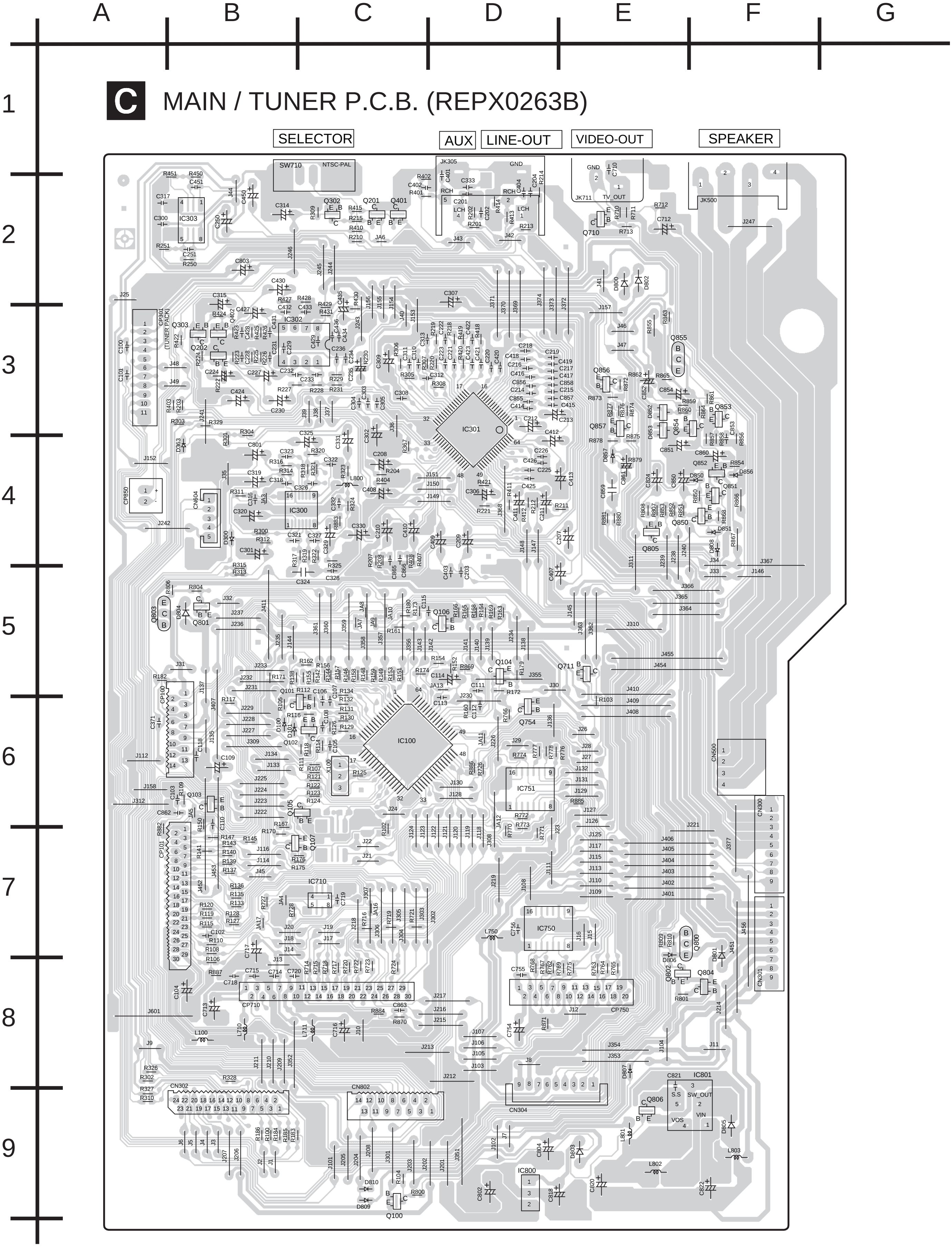
Z971
7 6 5 4 3 2 1
S972
J3
S971
CS971
1 2 3 4 5 6 7 8 9
S975
D971
IC971
2 1 3 4
R973
R972
J2
PL+
PL-
SOLENOID

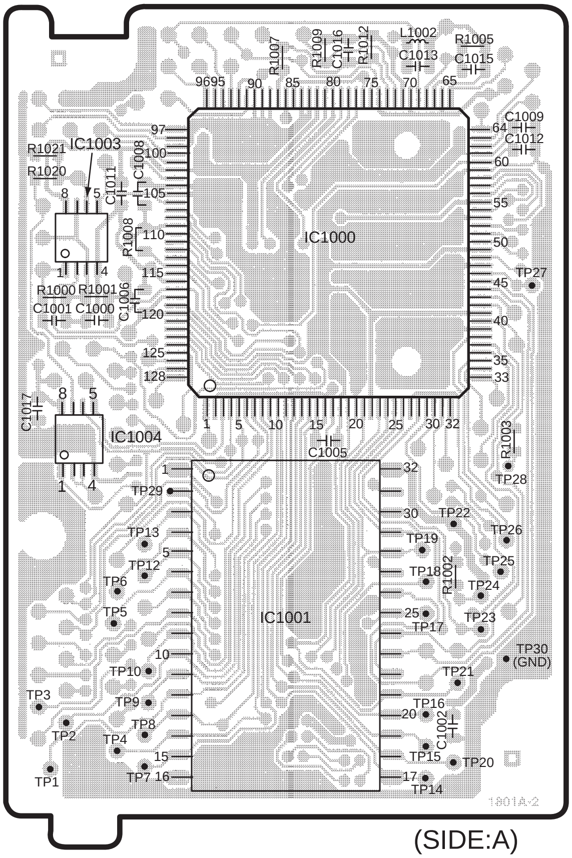
C MAIN / TUNER P.C.B. (REPX0263B)


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
SELECTOR
AUX
LINE-OUT
VIDEO-OUT
SPEAKER
SW710
NTSC-PAL
JK305
GND
RCH
LCH
JK711
TV_OUT
JK500
IC303
IC302
CP301 (TUNER PACK)
IC301
IC300
CN604
CP850
IC100
CP100
CP101
IC751
IC710
CP710
IC750
CP750
CN500
CN300
CN301
IC801
S.S
SW_OUT
VIN
VOS
CN302
CN802
CN304
IC800
Q100
Q101
Q102
Q103
Q104
Q105
Q106
Q107
Q201
Q202
Q302
Q303
Q401
Q402
Q710
Q711
Q754
Q801
Q802
Q803
Q804
Q805
Q806
Q850
Q851
Q852
Q853
Q854
Q855
Q856
Q857
X100
L100
L710
L711
L750
L800
L801
L802
L803

A B C D E F G

1 2 3 4 5 6 7 8 9

B VIDEO MODULE P.C.B (RD-DVK029-SY)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R1009
C1016
R1012
L1002
C1013
R1005
C1015
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85
80
75
70
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C1009
C1012
97
64
60
55
50
45
40
35
33
100
105
110
115
120
125
128
IC1003
R1021
R1020
C1011
C1008
R1008
8
5
1
4
R1000
R1001
C1006
C1001
C1000
IC1000
TP27
C1017
8
5
IC1004
1
4
1
5
10
15
20
25
30
32
R1003
TP28
C1005
1
32
TP29
30
TP22
TP13
5
TP19
TP26
TP12
TP18
R1002
TP25
TP6
TP24
TP5
25
TP17
TP23
IC1001
10
TP30 (GND)
TP10
TP21
TP3
TP9
TP16
TP8
20
C1002
TP2
TP4
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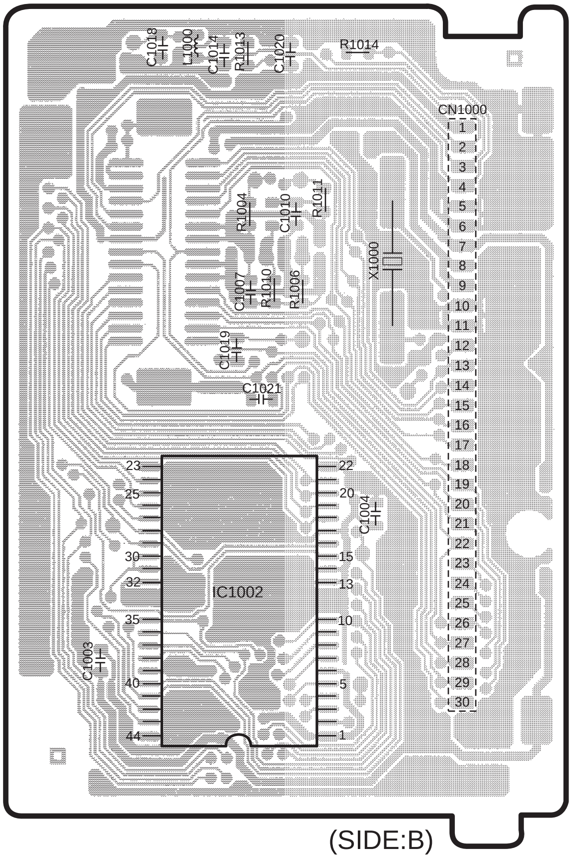
TP15
TP20
TP7
16
17
TP1
TP14
1801A-2

(SIDE:A)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L1000
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R1013
C1020
R1014
CN1000
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2
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10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
R1004
C1010
R1011
X1000
C1007
R1010
R1006
C1019
C1021
23
22
25
20
C1004
30
15
32
13
IC1002
35
10
C1003
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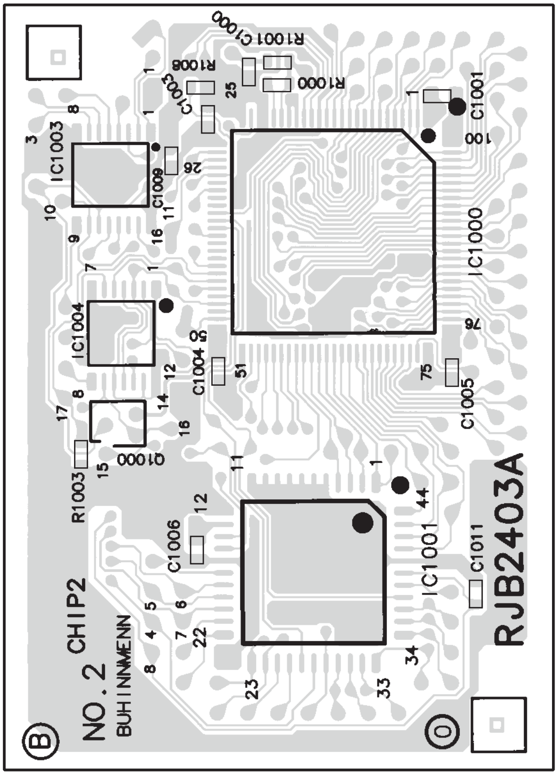
5
44
1

(SIDE:B)

A B C D E F G

1 2 3 4 5 6 7 8 9

R MP3 Module P.C.B (REP3122A-T)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R1008
C1003
R1000
C1001
IC1003
C1009
IC1000
IC1004
C1004
C1005
C1000
R1003
C1006
IC1001
C1011
RJB24403A
CHIP2
NO.2
BUHINNMENN
B
1
8
3
10
9
7
16
11
26
25
100
76
75
51
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16
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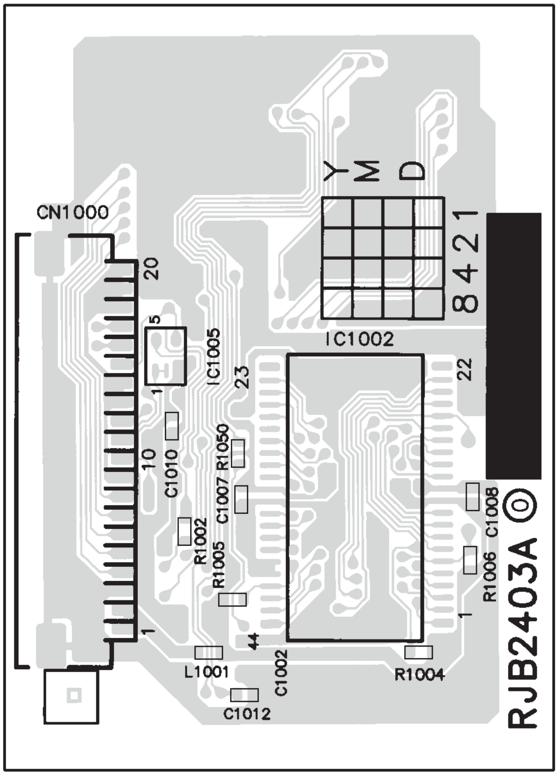
33
34

SIDE:A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L1001
C1012
C1002
23
44
IC1002
Y
M
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8 4 2 1
22
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R1006
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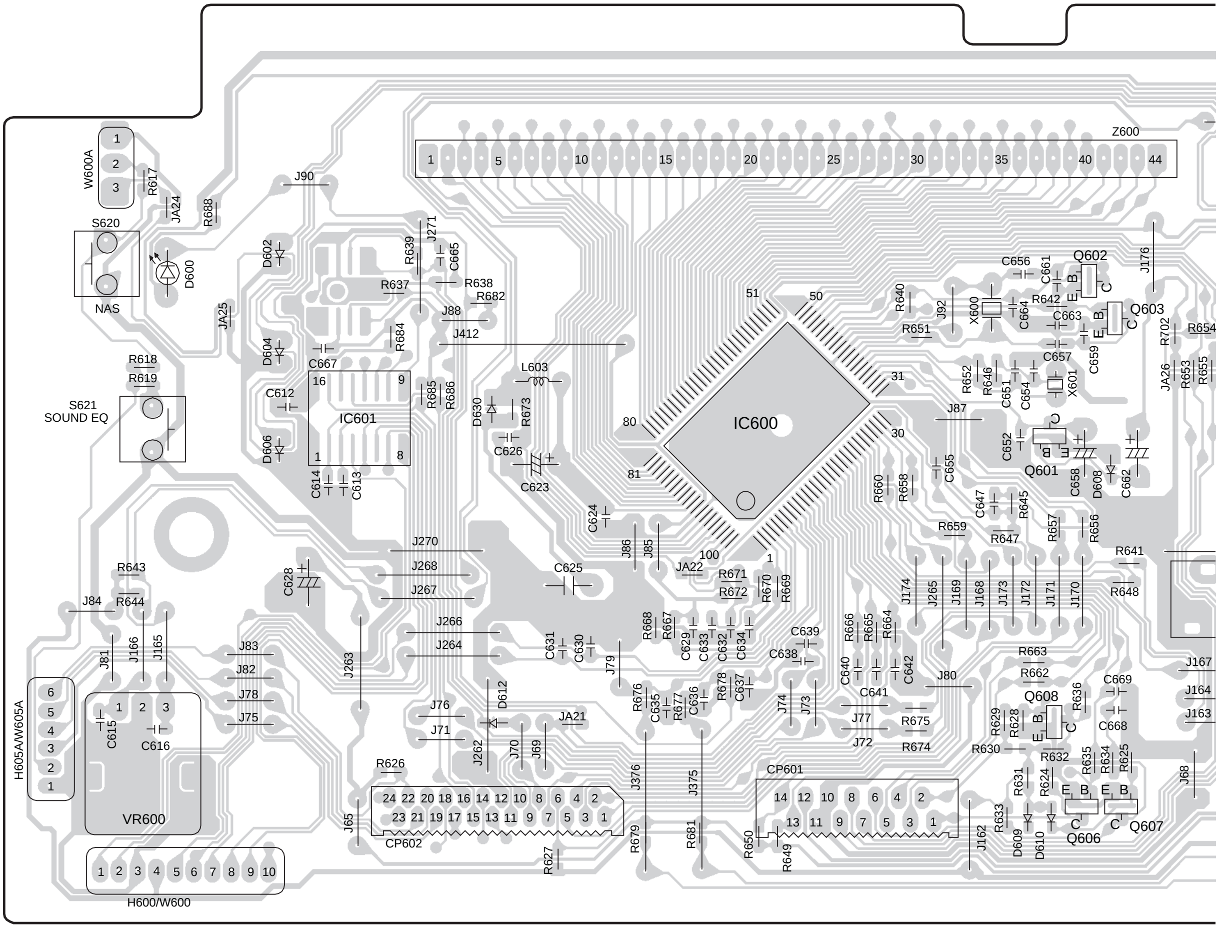
SIDE:B

D PANEL P.C.B. (REPX0263B)



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B
C
D
E
F
G
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6
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Z600
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10
15
20
25
30
35
40
44
W600A
R617
JA24
R688
J90
S620
NAS
D600
D602
R639
J271
C665
R637
R638
R682
J88
J412
JA25
D604
C667
R684
R618
R619
S621
SOUND EQ
C612
IC601
16
9
1
8
D606
C614
C613
R685
R686
L603
D630
R673
C626
C623
IC600
51
50
31
30
80
81
100
1
C624
J86
J85
JA22
R671
R672
R670
R669
C656
C661
Q602
R640
J92
X600
C664
R642
C663
Q603
R651
C657
C659
R702
R654
J176
JA26
R653
R655
R652
R646
C651
C654
X601
J87
C652
Q601
C655
C658
D608
C662
R660
R658
C647
R645
R659
R647
R657
R656
R641
R648
J270
J268
J267
C628
C625
R643
R644
J84
J266
J264
J83
J82
J78
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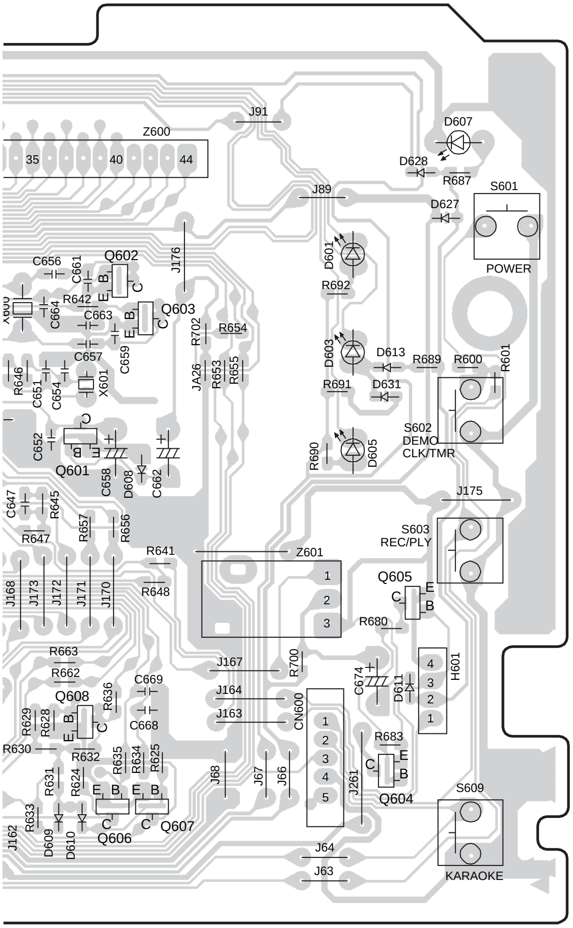
C632
C634
C639
C638
R666
R665
R664
J174
J265
J169
J168
J173
J172
J171
J170
R663
R662
C669
J167
C640
C641
C642
J80
Q608
R636
J164
J163
C668
R629
R628
R630
R632
R635
R634
R625
J68
H605A/W605A
6
5
4
3
2
1
C615
C616
VR600
J76
J71
D612
J262
J70
J69
JA21
R626
R676
C635
R677
C636
R678
C637
J74
J73
J77
J72
R675
R674
CP602
24 22 20 18 16 14 12 10 8 6 4 2
23 21 19 17 15 13 11 9 7 5 3 1
J65
R627
J376
R679
J375
R681
CP601
14 12 10 8 6 4 2
13 11 9 7 5 3 1
R650
R649
J162
R633
D609
D610
R631
R624
Q606
Q607
E
B
C
H600/W600
1 2 3 4 5 6 7 8 9 10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R687
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D627
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J176
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Q603
R642
C664
C663
C659
R702
R654
C657
X601
R646
C651
C654
JA26
R653
R655
D601
R692
D603
D613
R689
R600
R601
R691
D631
C652
Q601
C658
D608
C662
R690
D605
S602
DEMO
CLK/TMR
C647
R645
R647
R657
R656
J175
S603
REC/PLY
R641
Z601
1
2
3
R648
Q605
J168
J173
J172
J171
J170
R680
R663
R662
C669
Q608
R636
C668
J167
R700
J164
J163
CN600
C674
D611
H601
R629
R628
R630
R632
R635
R634
R625
R683
Q604
R631
R624
R633
J68
J67
J66
J261
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D610
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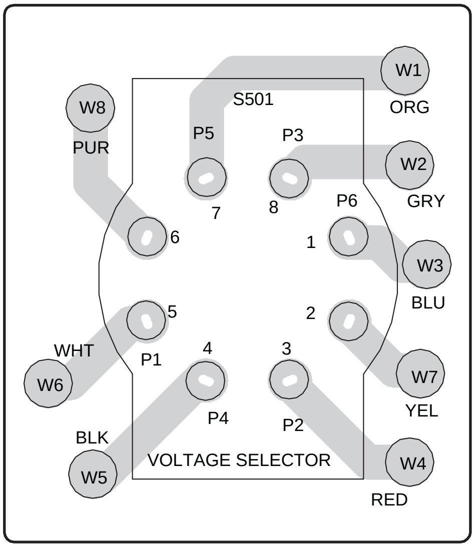
S609
KARAOKE
J64
J63

M VOLTAGE SELECTOR P.C.B. (REPX0237H)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PUR
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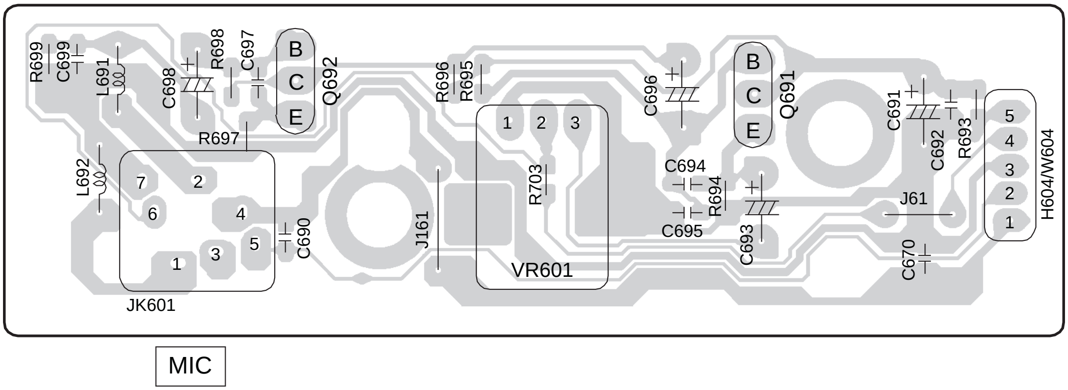
W2
GRY
7
8
P6
6
1
W3
BLU
5
2
WHT
P1
4
3
W6
W7
YEL
P4
P2
BLK
VOLTAGE SELECTOR
W5
W4
RED

N MICROPHONE P.C.B. (REPX0263B)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R696
R695
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C696
B
C
E
Q691
C691
C692
R693
5
4
3
2
1
H604/W604
L692
7
2
6
4
1
3
5
C690
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R694
C695
C693
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VR601
JK601
MIC

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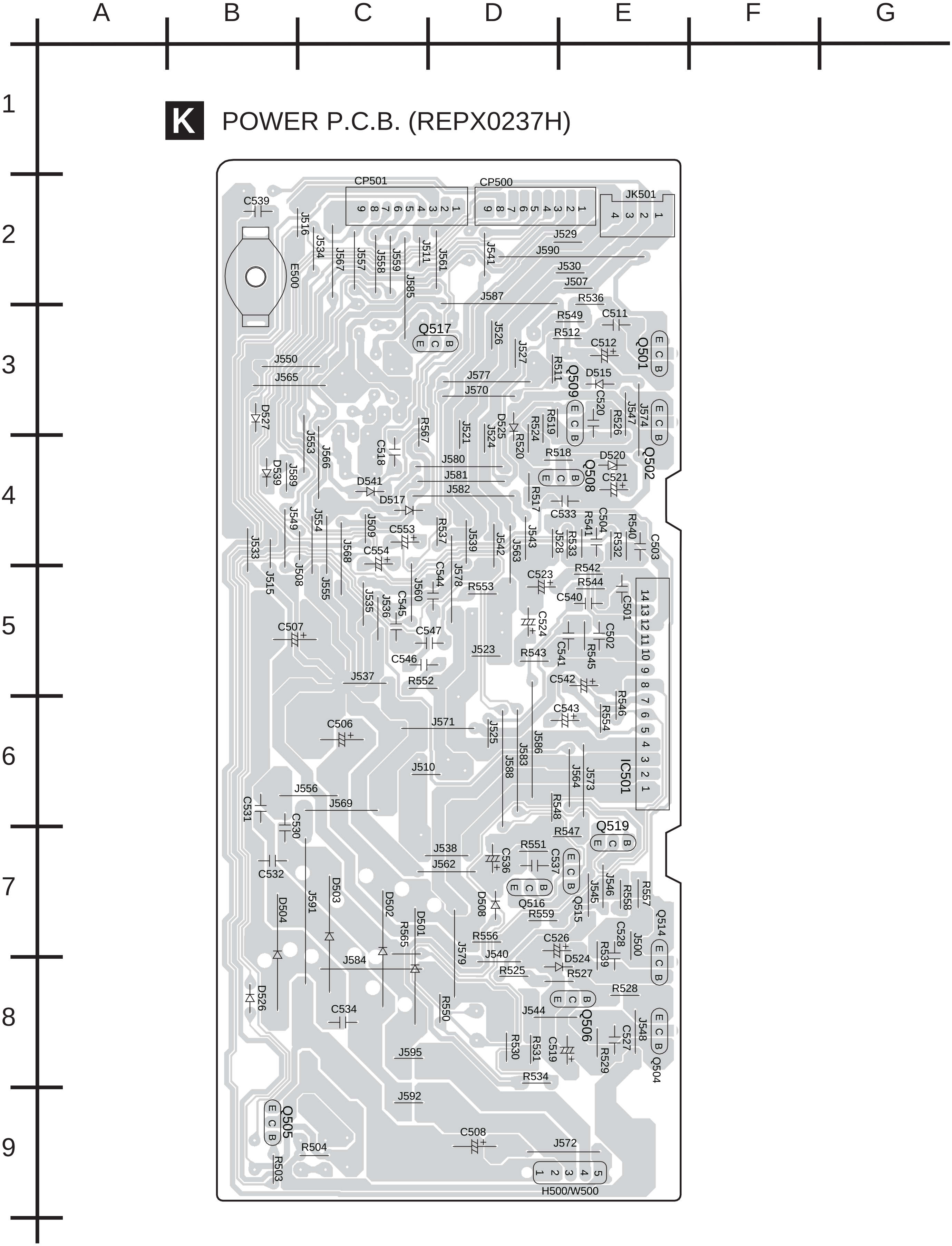
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CP500
9 8 7 6 5 4 3 2 1
JK501
4 3 2 1
C539
J516
J534
J567
J557
J558
J559
J511
J561
J541
J529
J590
J530
J507
E500
J585
J587
R536
R549
C511
R512
Q517
E C B
J526
J527
C512
Q501
E C B
R511
Q509
D515
J550
J565
J577
J570
C520
R526
J547
J574
E C B
D527
J553
J566
R567
C518
J521
J524
D525
R520
R524
R519
E C B
R518
D520
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D539
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J581
J582
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C521
D541
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R537
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J563
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J528
R533
R541
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R532
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C545
J560
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J578
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C523
R542
R544
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R546
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J583
J588
J564
J573
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J556
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R548
R547
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E C B
C532
J538
J562
R551
C536
C537
E C B
Q516
E C B
Q515
J546
J545
R558
R557
D503
D504
J591
D502
D501
R565
D508
R559
Q514
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J500
E C B
R556
C526
J540
D524
R539
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R527
J579
R528
D526
C534
R550
E C B
Q506
J544
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C527
J548
R530
R531
C519
R529
Q504
J595
R534
J592
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R503
C508
J572
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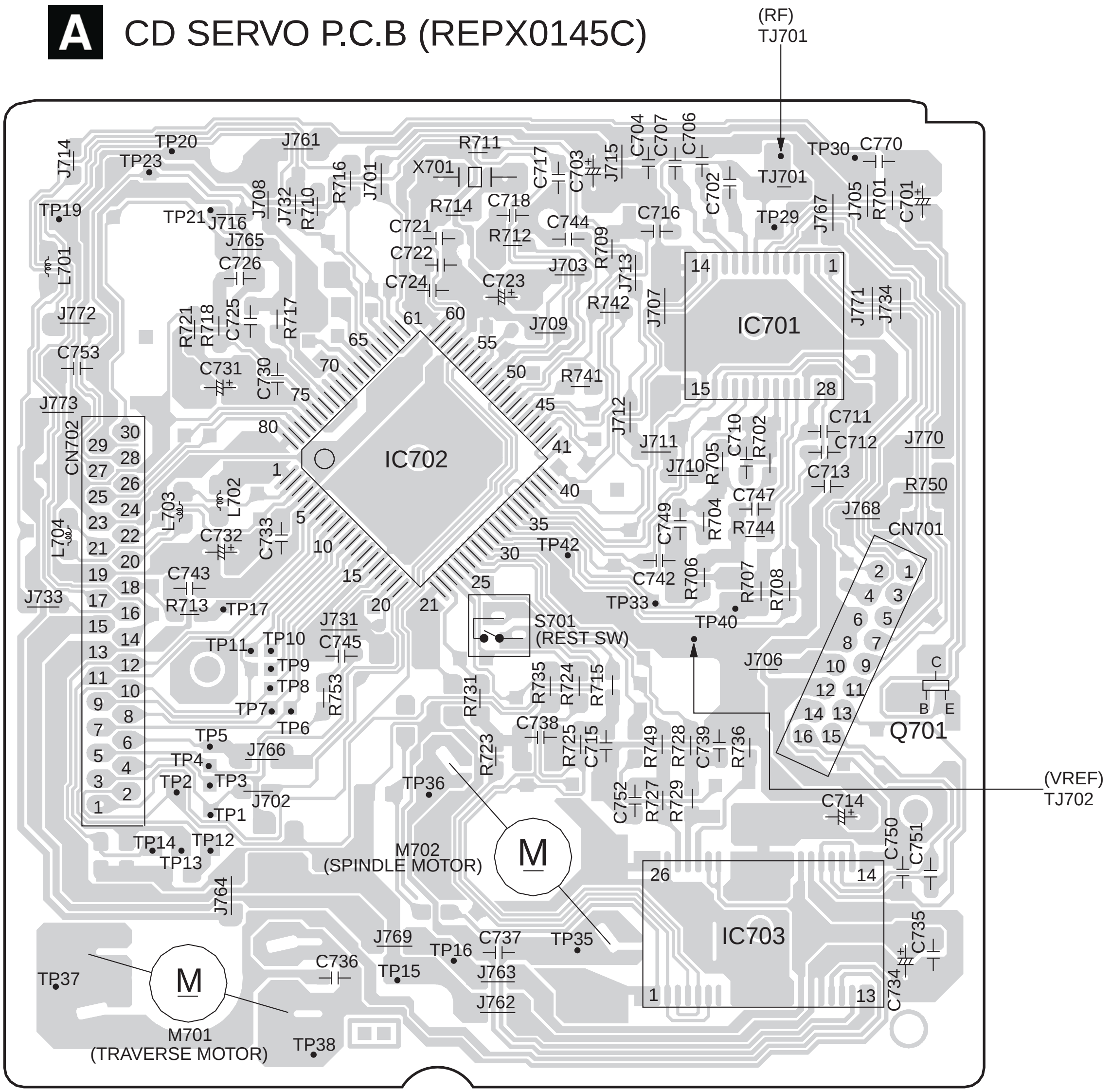
A CD SERVO P.C.B (REPX0145C)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(RF)
TJ701
(VREF)
TJ702
IC701
IC702
IC703
Q701
CN701
CN702
S701
(REST SW)
M701
(TRAVERSE MOTOR)
M702
(SPINDLE MOTOR)
M
X701
L701
L702
L703
L704
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
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C750
C751
C752
C753
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R706
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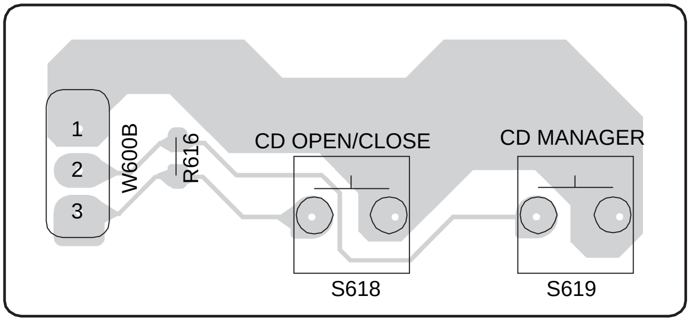
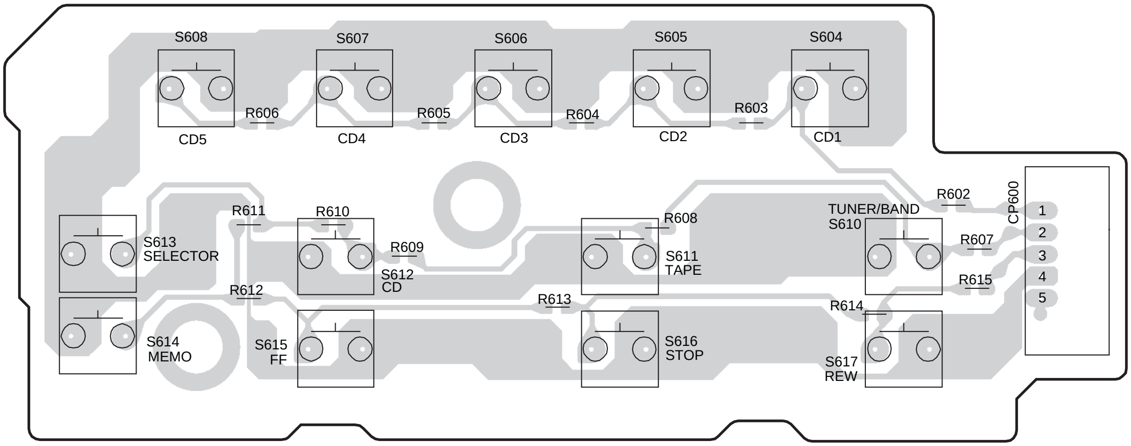
R712
R713
R714
R715
R716
R717
R718
R721
R723
R724
R725
R727
R728
R729
R731
R735
R736
R741
R742
R744
R749
R750
R753
J701
J702
J703
J705
J706
J707
J708
J709
J710
J711
J712
J713
J714
J715
J716
J731
J732
J733
J734
J761
J762
J763
J764
J765
J766
J767
J768
J769
J770
J771
J772
J773
B
C
E

A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9

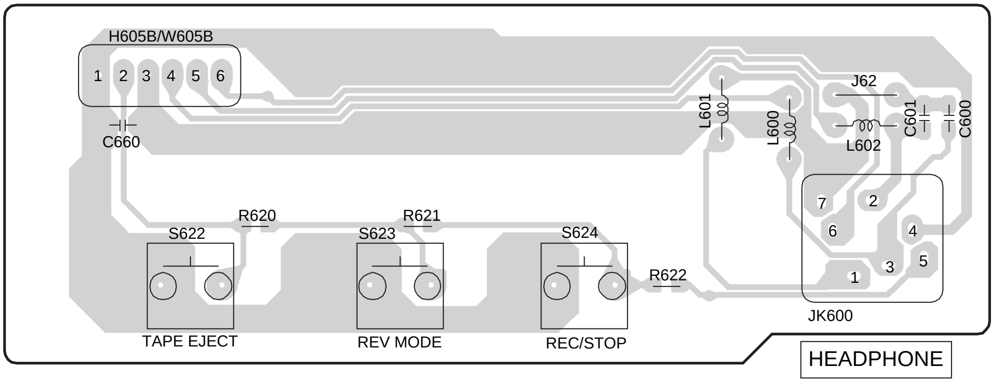
E TACT SWITCH (1) P.C.B. (REPX0263B)


1
2
3
W600B
R616
CD OPEN/CLOSE
CD MANAGER
S618
S619

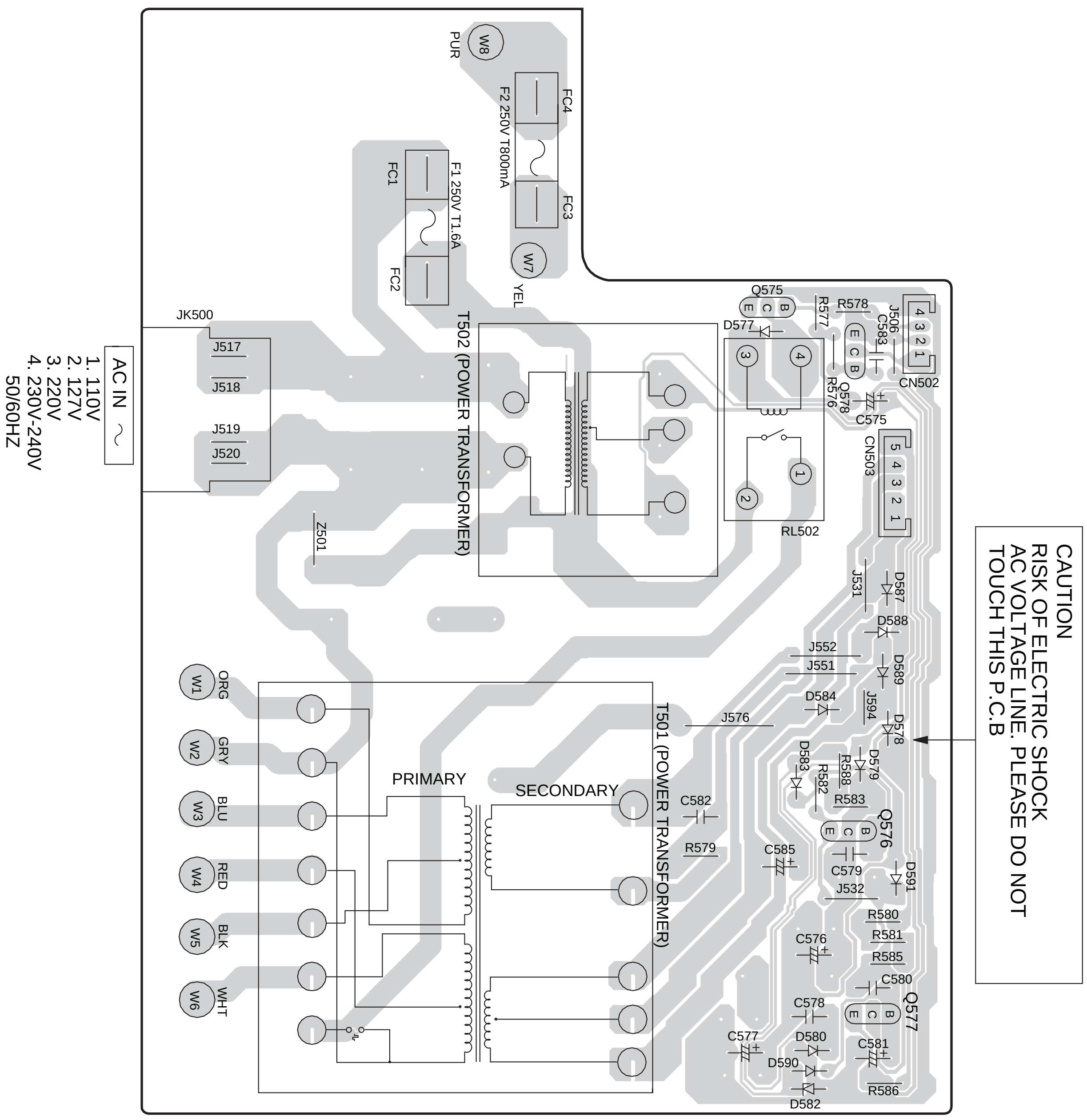
F TACT SWITCH (2) P.C.B. (REPX0263B)


S608
S607
S606
S605
S604
R606
R605
R604
R603
CD5
CD4
CD3
CD2
CD1
R602
CP600
TUNER/BAND
S610
R611
R610
R608
R609
S613
SELECTOR
S612
CD
S611
TAPE
R607
R615
1
2
3
4
5
R612
R613
R614
S614
MEMO
S615
FF
S616
STOP
S617
REW

G HEADPHONE P.C.B. (REPX0263B)


H605B/W605B
1
2
3
4
5
6
C660
L601
L600
J62
L602
C601
C600
7
2
6
4
3
5
1
R620
R621
S622
S623
S624
R622
JK600
TAPE EJECT
REV MODE
REC/STOP
HEADPHONE

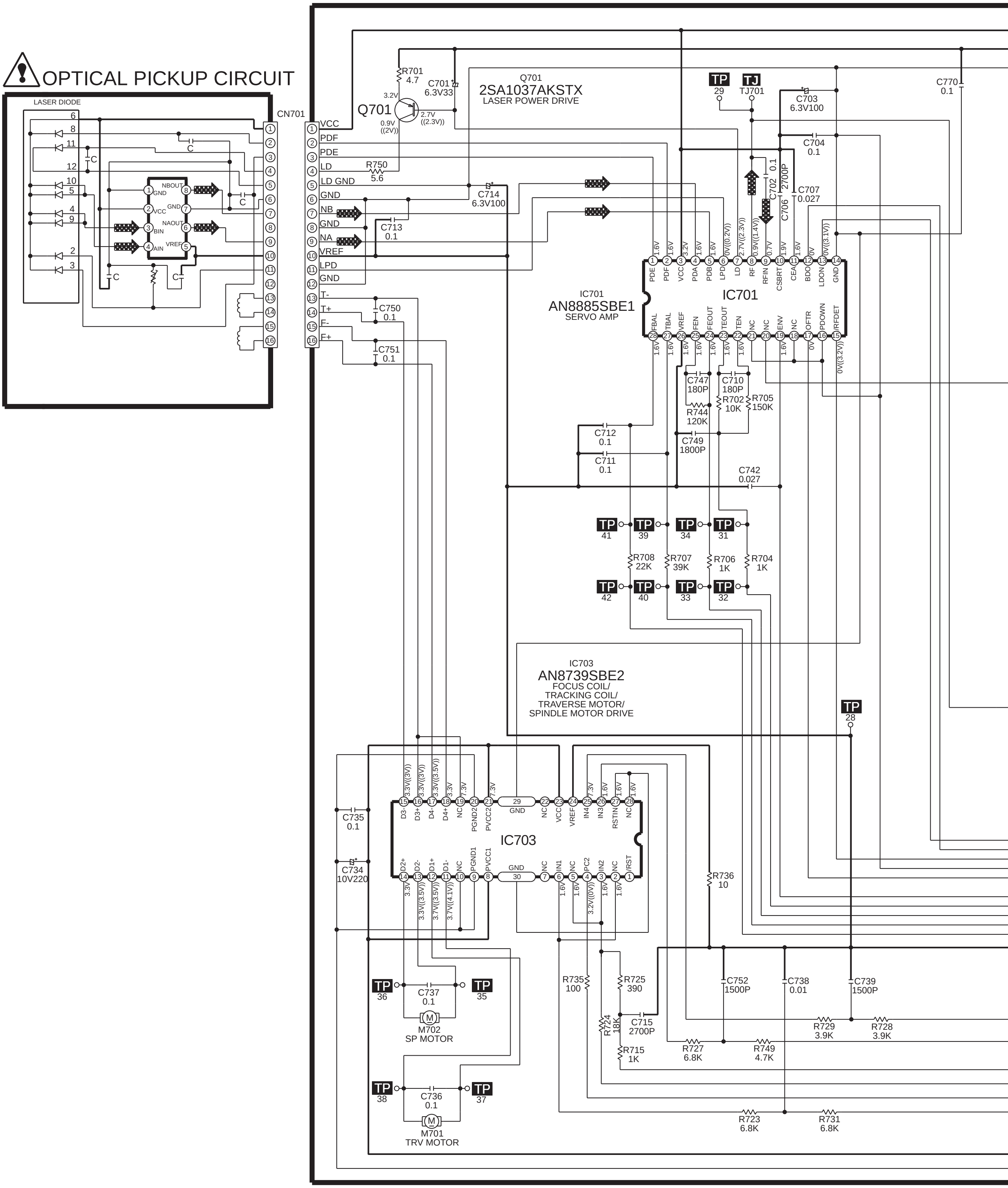
L AC TRANSFORMER P.C.B. (REPX0237H)


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
W8
PUR
FC4
F2 250V T800mA
FC3
W7
YEL
FC1
F1 250V T1.6A
FC2
JK500
J517
J518
J519
J520
AC IN ~
1. 110V
2. 127V
3. 220V
4. 230V-240V
50/60HZ
T502 (POWER TRANSFORMER)
Z501
Q575
E C B
R577
R578
J506
C583
D577
3
4
E C B
Q578
R576
C575
CN502
4 3 2 1
CN503
5 4 3 2 1
1
2
RL502
J531
D587
D588
J552
J551
D589
D584
J594
D578
J576
D583
R582
R588
D579
R583
Q576
E C B
C582
R579
C585
C579
D591
J532
R580
R581
R585
C576
C580
Q577
E C B
C578
C577
D580
C581
D590
D582
R586
W1
ORG
W2
GRY
W3
BLU
W4
RED
W5
BLK
W6
WHT
PRIMARY
SECONDARY
T501 (POWER TRANSFORMER)
CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE. PLEASE DO NOT
TOUCH THIS P.C.B

SCHEMATIC DIAGRAM -1

— : +B SIGNAL LINE ▶ : CD-DA SIGNAL LINE

A CD SERVO CIRCUIT

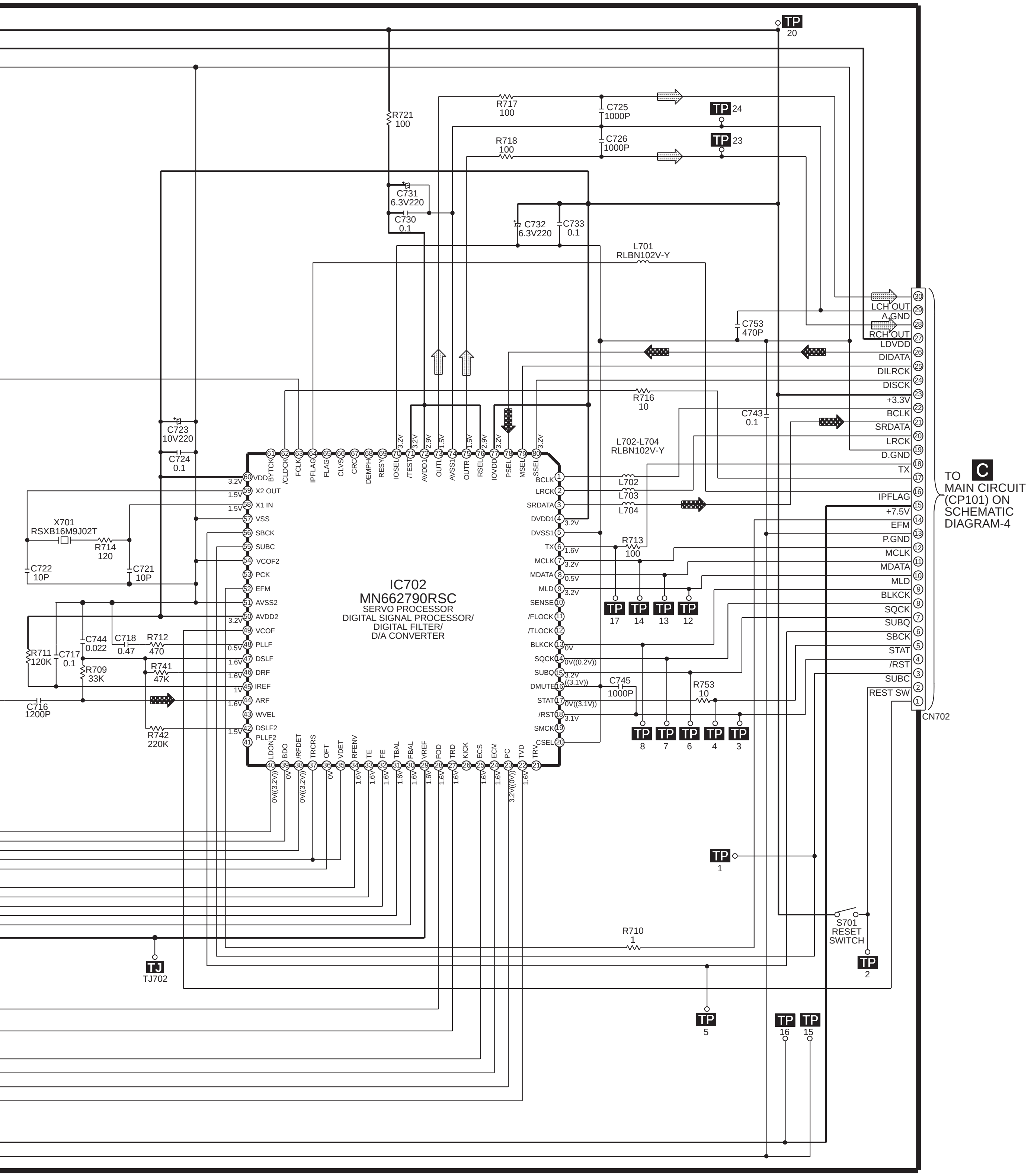


OPTICAL PICKUP CIRCUIT
LASER DIODE
CN701
VCC
PDF
PDE
LD
LD GND
GND
NB
GND
NA
VREF
LPD
GND
T-
T+
F-
F+
NBOUT
GND
VCC
GND
BIN
NAOUT
AIN
VREF
C
R701 4.7
C701 6.3V33
Q701
2SA1037AKSTX
LASER POWER DRIVE
3.2V
0.9V ((2V))
2.7V ((2.3V))
R750 5.6
C714 6.3V100
C713 0.1
C750 0.1
C751 0.1
TP 29
TJ TJ701
C703 6.3V100
C704 0.1
C702 0.1
C706 2700P
C707 0.027
C770 0.1
IC701
AN8885SBE1
SERVO AMP
PDE
PDF
VCC
PDA
PDB
LPD
LD
RF
RFIN
CSBRT
CEA
BDO
LDON
GND
FBAL
TBAL
VREF
FEN
FEOUT
TEOUT
TEN
NC
NC
ENV
NC
OFTR
PDOWN
RFDET
1.6V
3.2V
0V((0.2V))
2.7V((2.3V))
0.9V((1.4V))
0.7V
1.9V
0V
0V((3.1V))
0V((3.2V))
C747 180P
C710 180P
R744 120K
R702 10K
R705 150K
C749 1800P
C712 0.1
C711 0.1
C742 0.027
TP 41
TP 39
TP 34
TP 31
R708 22K
R707 39K
R706 1K
R704 1K
TP 42
TP 40
TP 33
TP 32
IC703
AN8739SBE2
FOCUS COIL/
TRACKING COIL/
TRAVERSE MOTOR/
SPINDLE MOTOR DRIVE
TP 28
IC703
D3-
D3+
D4-
D4+
NC
PGND2
PVCC2
GND
NC
VCC
VREF
IN4
IN3
RSTIN
NC
D2+
D2-
D1+
D1-
NC
PGND1
PVCC1
GND
NC
IN1
NC
PC2
IN2
NC
IRST
3.3V((3V))
3.3V((3.5V))
3.7V((4.1V))
7.3V
3.2V((0V))
C735 0.1
C734 10V220
R736 10
TP 36
TP 35
C737 0.1
M702
SP MOTOR
TP 38
TP 37
C736 0.1
M701
TRV MOTOR
R735 100
R725 390
R724 18K
C715 2700P
R715 1K
C752 1500P
C738 0.01
C739 1500P
R729 3.9K
R728 3.9K
R727 6.8K
R749 4.7K
R723 6.8K
R731 6.8K

SCHEMATIC DIAGRAM - 2

— : +B SIGNAL LINE ⇨ : CD SIGNAL LINE ➡ : CD-DA SIGNAL LINE

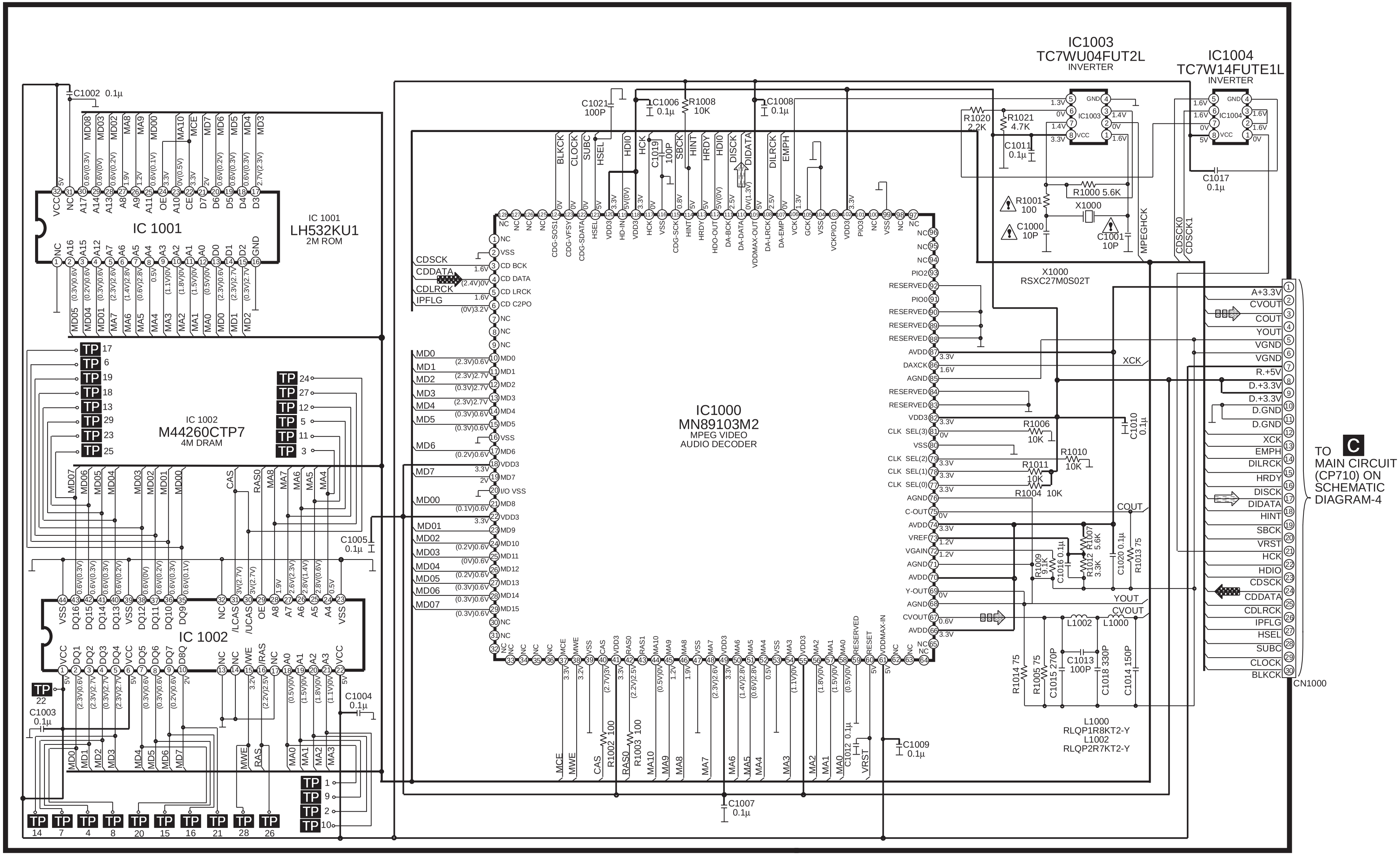
A CD SERVO CIRCUIT


TP 20
R717 100
C725 1000P
TP 24
R721 100
R718 100
C726 1000P
TP 23
C731 6.3V220
C730 0.1
C732 6.3V220
C733 0.1
L701 RLBN102V-Y
C753 470P
LCH OUT
A.GND
RCH OUT
LDVDD
DIDATA
DILRCK
DISCK
+3.3V
BCLK
SRDATA
LRCK
D.GND
TX
IPFLAG
+7.5V
EFM
P.GND
MCLK
MDATA
MLD
BLKCK
SQCK
SUBQ
SBCK
STAT
/RST
SUBC
REST SW
CN702
TO C MAIN CIRCUIT (CP101) ON SCHEMATIC DIAGRAM-4
R716 10
C743 0.1
L702-L704 RLBN102V-Y
L702
L703
L704
R713 100
C723 10V220
C724 0.1
X701 RSXB16M9J02T
R714 120
C722 10P
C721 10P
IC702
MN662790RSC
SERVO PROCESSOR/
DIGITAL SIGNAL PROCESSOR/
DIGITAL FILTER/
D/A CONVERTER
BYTCK
/CLDCK
FCLK
IPFLAG
FLAG
CLVS
CRC
DEMPH
RESY
IOSEL
/TEST
AVDD1
OUTL
AVSS1
OUTR
RSEL
IOVDD
PSEL
MSEL
SSEL
VDD
X2 OUT
X1 IN
VSS
SBCK
SUBC
VCOF2
PCK
EFM
AVSS2
AVDD2
VCOF
PLLF
DSLF
DRF
IREF
ARF
WVEL
DSLF2
PLLF2
BCLK
LRCK
SRDATA
DVDD1
DVSS1
TX
MCLK
MDATA
MLD
SENSE
/FLOCK
/TLOCK
BLKCK
SQCK
SUBQ
DMUTE
STAT
/RST
SMCK
CSEL
LDON
BDO
/RFDET
TRCRS
OFT
VDET
RFENV
TE
FE
TBAL
FBAL
VREF
FOD
TRD
KICK
ECS
ECM
PC
TVD
TRV
C744 0.022
C718 0.47
R712 470
R711 120K
C717 0.1
R709 33K
R741 47K
C716 1200P
R742 220K
TP 17
TP 14
TP 13
TP 12
C745 1000P
R753 10
TP 8
TP 7
TP 6
TP 4
TP 3
TP 1
S701 RESET SWITCH
TP 2
R710 1
TJ TJ702
TP 5
TP 16
TP 15

SCHEMATIC DIAGRAM - 3

——— : +B SIGNAL LINE ⇨ : VCD AUDIO SIGNAL LINE ⇨ : VCD VIDEO SIGNAL LINE ⇨ : CD-DA SIGNAL LINE

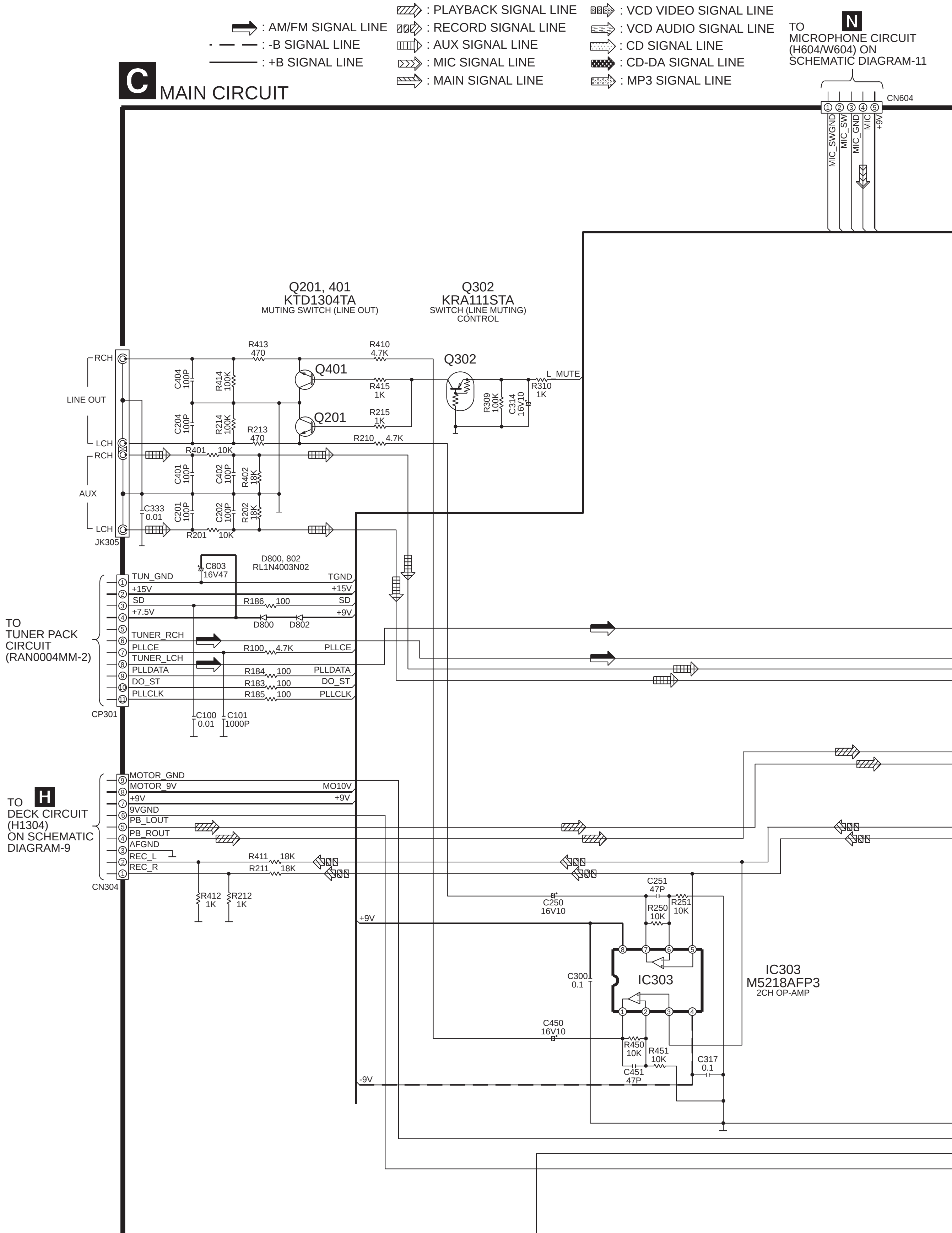
B VIDEO MODULE CIRCUIT

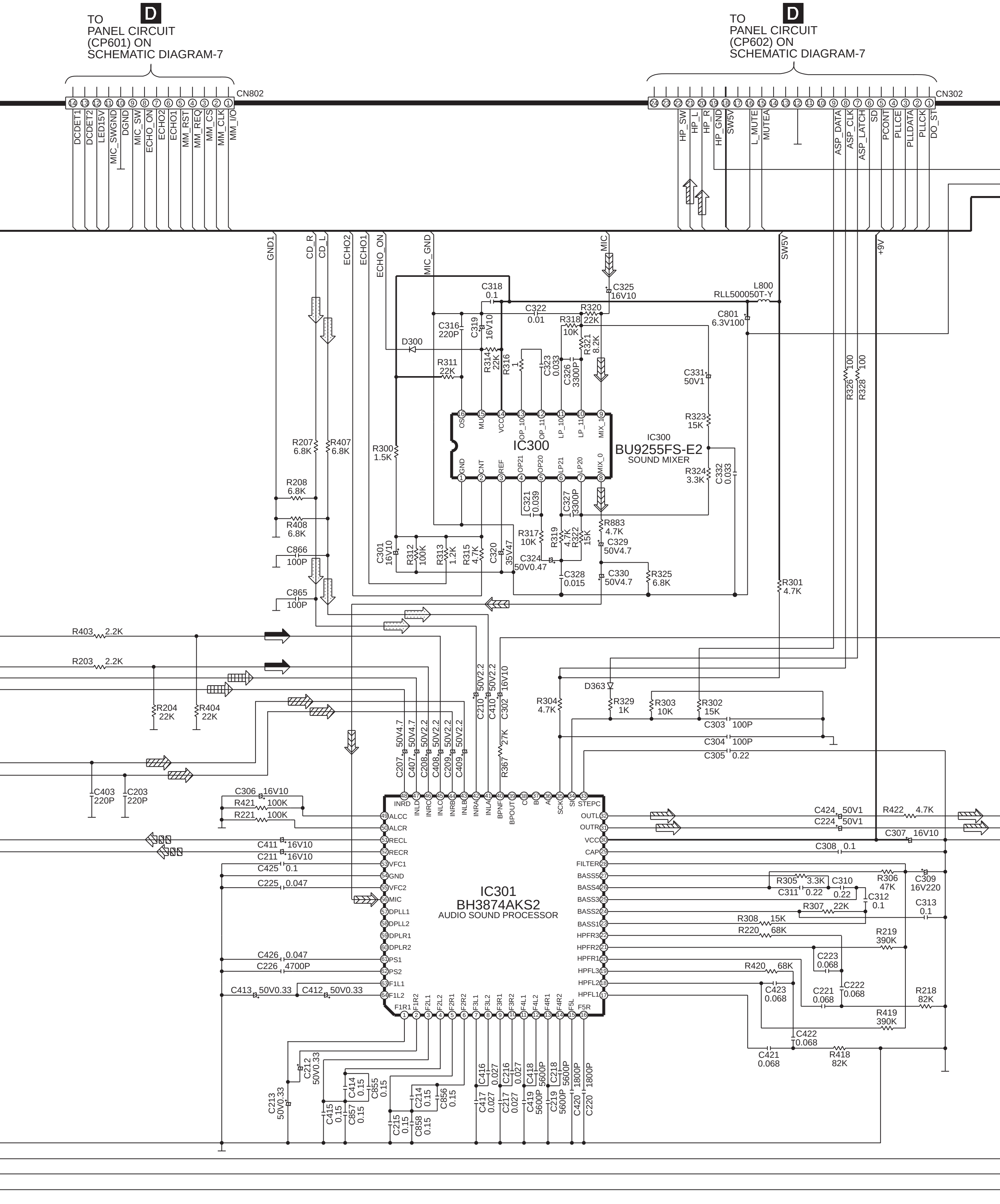


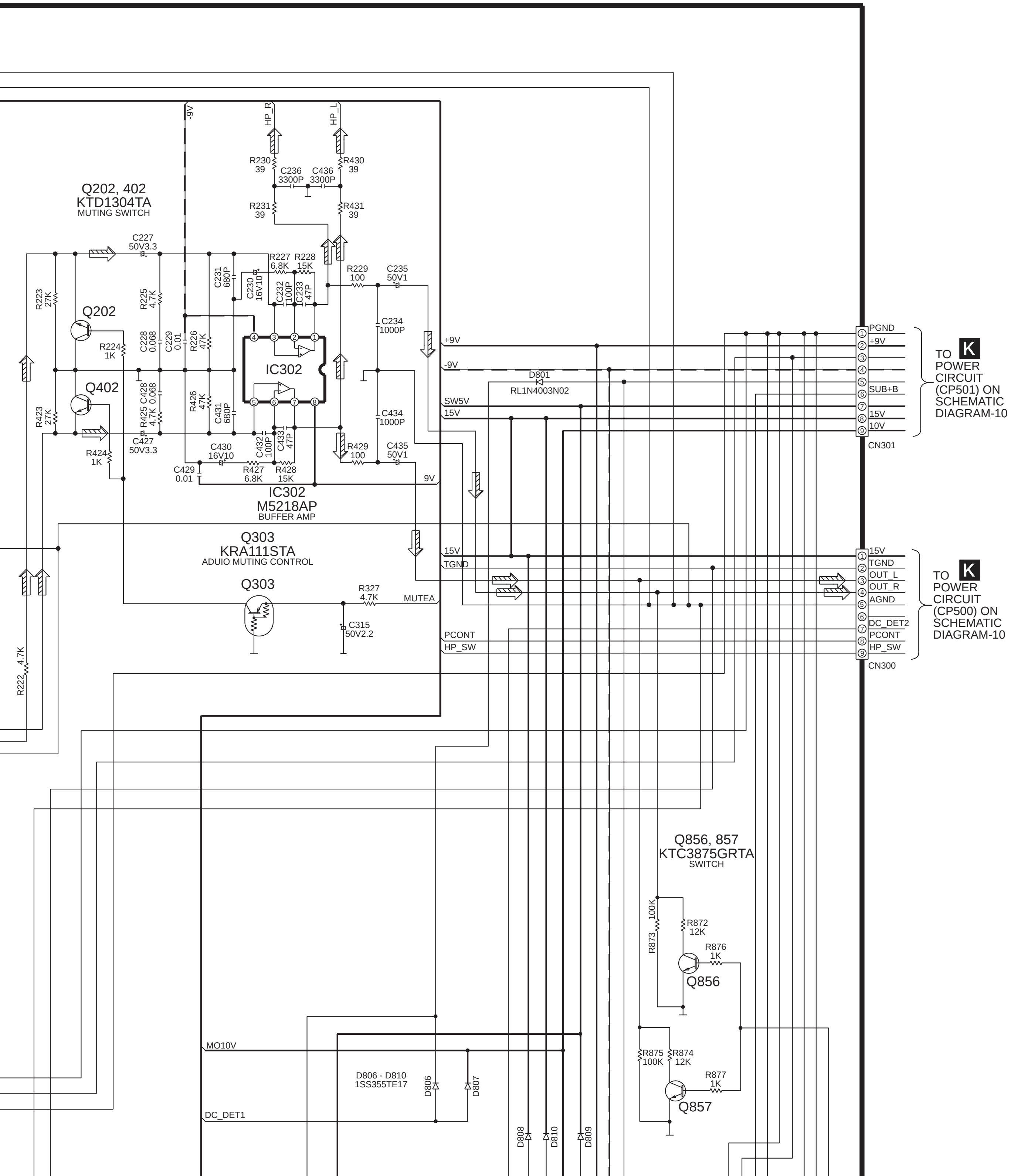
IC 1001
LH532KU1
2M ROM
IC 1002
M44260CTP7
4M DRAM
IC1000
MN89103M2
MPEG VIDEO
AUDIO DECODER
IC1003
TC7WU04FUT2L
INVERTER
IC1004
TC7W14FUTE1L
INVERTER
X1000
RSXC27M0S02T
L1000
RLQP1R8KT2-Y
L1002
RLQP2R7KT2-Y
CN1000
TO C MAIN CIRCUIT (CP710) ON SCHEMATIC DIAGRAM-4
A+3.3V
CVOUT
COUT
YOUT
VGND
VGND
R.+5V
D.+3.3V
D.+3.3V
D.GND
D.GND
XCK
EMPH
DILRCK
HRDY
DISCK
DIDATA
HINT
SBCK
VRST
HCK
HDIO
CDSCK
CDDATA
CDLRCK
IPFLG
HSEL
SUBC
CLOCK
BLKCK
C1002 0.1µ
C1003 0.1µ
C1004 0.1µ
C1005 0.1µ
C1006 0.1µ
C1007 0.1µ
C1008 0.1µ
C1009 0.1µ
C1010 0.1µ
C1011 0.1µ
C1012 0.1µ
C1013 100P
C1014 150P
C1015 270P
C1016 0.1µ
C1017 0.1µ
C1018 330P
C1019 100P
C1020 0.1µ
C1021 100P
C1000 10P
C1001 10P
R1000 5.6K
R1001 100
R1002 100
R1003 100
R1004 10K
R1005 75
R1006 10K
R1007 5.6K
R1008 10K
R1009 9.1K
R1010 10K
R1011 10K
R1012 3.3K
R1013 75
R1014 75
R1020 2.2K
R1021 4.7K
MPEGHCK
CDSCK0
CDSCK1
TP 1
TP 2
TP 3
TP 4
TP 5
TP 6
TP 7
TP 8
TP 9
TP 10
TP 11
TP 12
TP 13
TP 14
TP 15
TP 16
TP 17
TP 18
TP 19
TP 20
TP 21
TP 22
TP 23
TP 24
TP 25
TP 26
TP 27
TP 28
TP 29

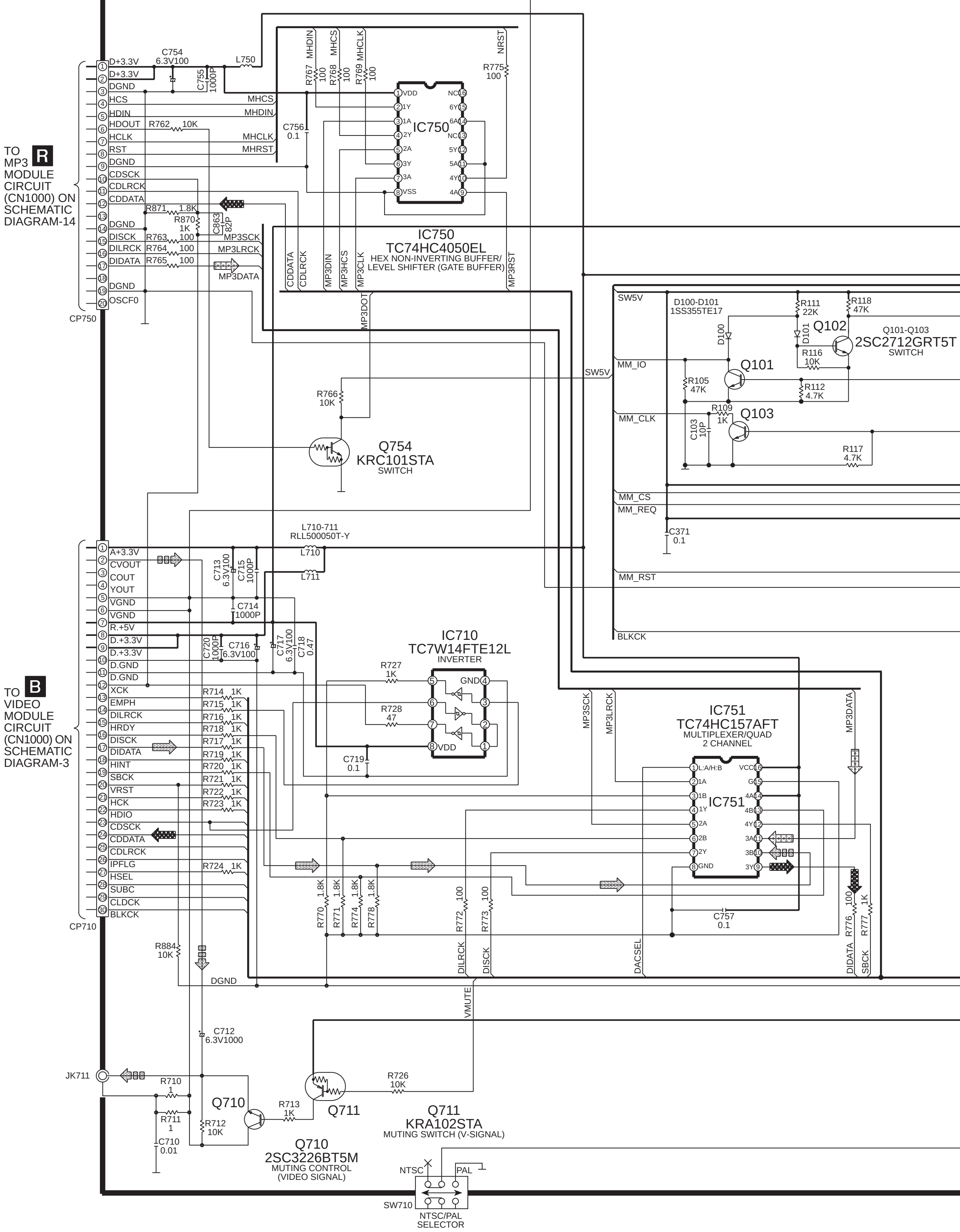
SCHEMATIC DIAGRAM-4

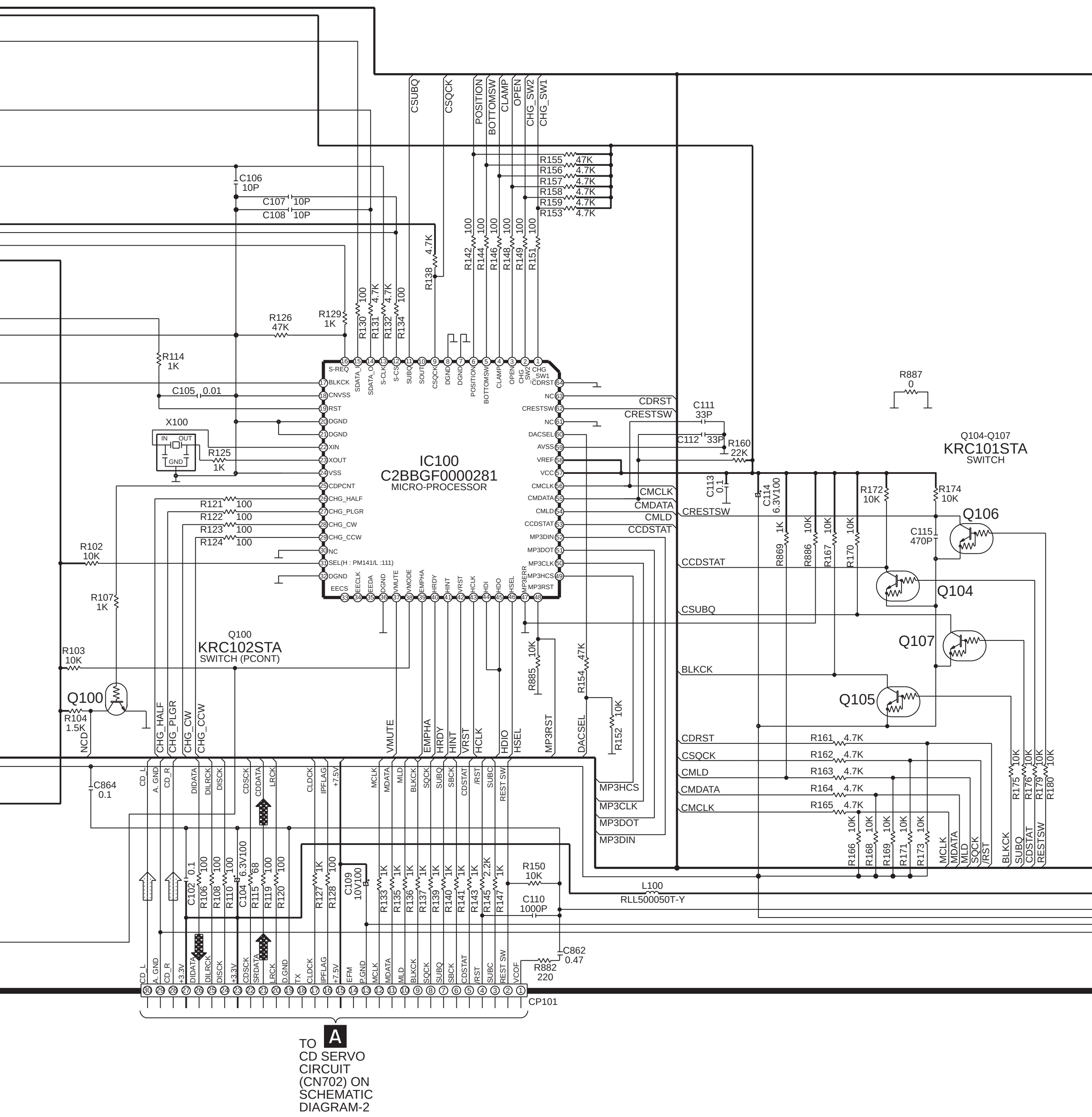
: AM/FM SIGNAL LINE
: -B SIGNAL LINE
: +B SIGNAL LINE
: PLAYBACK SIGNAL LINE
: RECORD SIGNAL LINE
: AUX SIGNAL LINE
: MIC SIGNAL LINE
: MAIN SIGNAL LINE
: VCD VIDEO SIGNAL LINE
: VCD AUDIO SIGNAL LINE
: CD SIGNAL LINE
: CD-DA SIGNAL LINE
: MP3 SIGNAL LINE

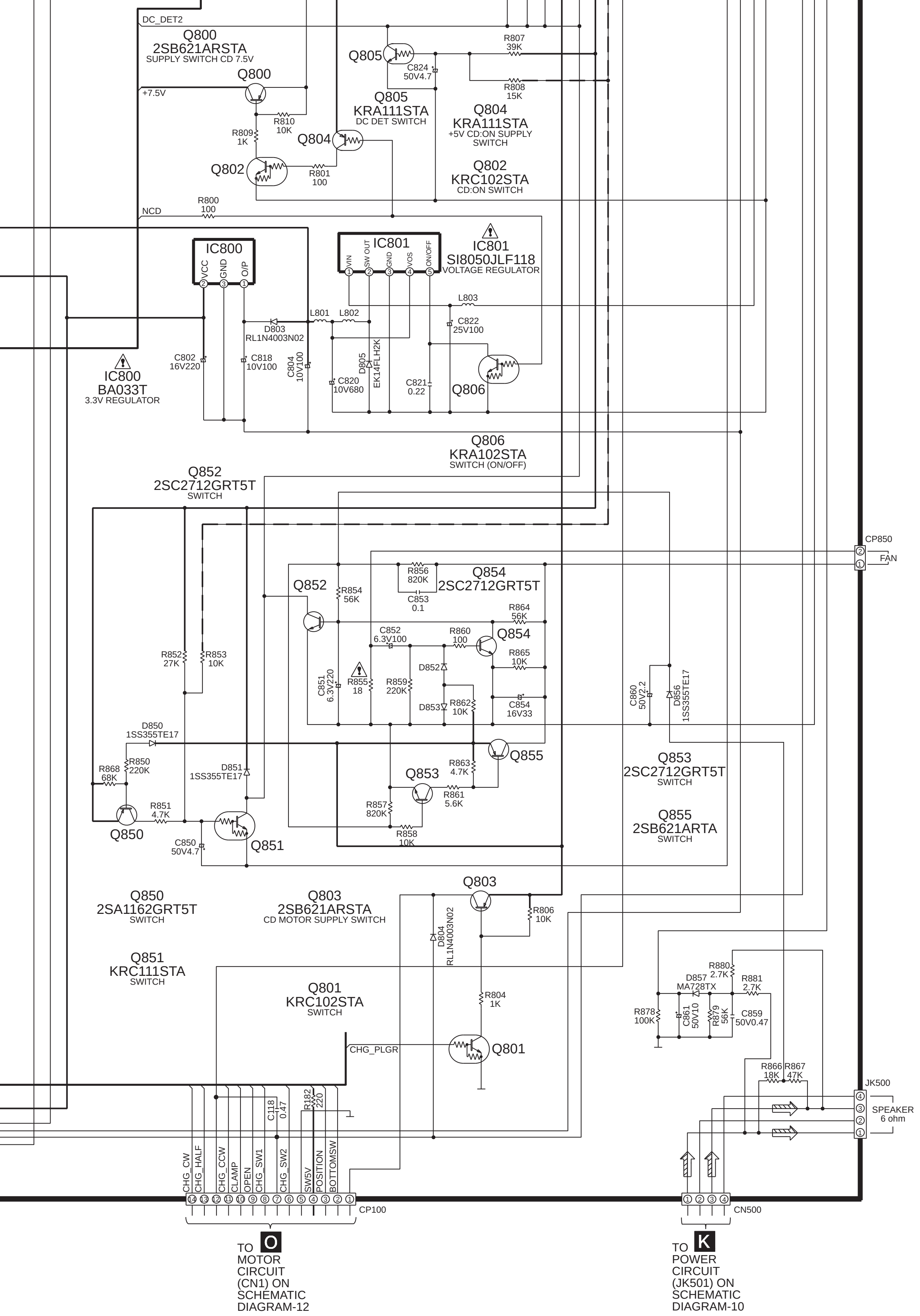

C
MAIN CIRCUIT
TO
N
MICROPHONE CIRCUIT
(H604/W604) ON
SCHEMATIC DIAGRAM-11
CN604
① ② ③ ④ ⑤
MIC_SWGND
MIC_SW
MIC_GND
MIC
+9V
Q201, 401
KTD1304TA
MUTING SWITCH (LINE OUT)
Q302
KRA111STA
SWITCH (LINE MUTING)
CONTROL
R413
470
R410
4.7K
Q401
Q302
R415
1K
L_MUTE
R310
1K
C404
100P
R414
100K
R309
100K
C314
16V10
C204
100P
R214
100K
Q201
R215
1K
R213
470
R210
4.7K
RCH
LINE OUT
LCH
RCH
AUX
LCH
JK305
R401
10K
C401
100P
C402
100P
R402
18K
C333
0.01
C201
100P
C202
100P
R202
18K
R201
10K
C803
16V47
D800, 802
RL1N4003N02
TO
TUNER PACK
CIRCUIT
(RAN0004MM-2)
① TUN_GND
② +15V
③ SD
④ +7.5V
⑤
⑥ TUNER_RCH
⑦ PLLCE
⑧ TUNER_LCH
⑨ PLLDATA
⑩ DO_ST
⑪ PLLCLK
CP301
TGND
+15V
SD
+9V
R186
100
D800
D802
R100
4.7K
PLLCE
R184
100
PLLDATA
R183
100
DO_ST
R185
100
PLLCLK
C100
0.01
C101
1000P
TO
H
DECK CIRCUIT
(H1304)
ON SCHEMATIC
DIAGRAM-9
⑨ MOTOR_GND
⑧ MOTOR_9V
⑦ +9V
⑥ 9VGND
⑤ PB_LOUT
④ PB_ROUT
③ AFGND
② REC_L
① REC_R
CN304
MO10V
+9V
R411
18K
R211
18K
R412
1K
R212
1K
C251
47P
R251
10K
C250
16V10
R250
10K
+9V
C300
0.1
IC303
IC303
M5218AFP3
2CH OP-AMP
⑧ ⑦ ⑥ ⑤
① ② ③ ④
C450
16V10
R450
10K
R451
10K
C451
47P
C317
0.1
-9V


TO
D
PANEL CIRCUIT
(CP601) ON
SCHEMATIC DIAGRAM-7
TO
D
PANEL CIRCUIT
(CP602) ON
SCHEMATIC DIAGRAM-7
CN802
DCDET1
DCDET2
LED15V
MIC_SWGND
DGND
MIC_SW
ECHO_ON
ECHO2
ECHO1
MM_RST
MM_REQ
MM_CS
MM_CLK
MM_I/O
CN302
HP_SW
HP_L
HP_R
HP_GND
SW5V
L_MUTE
MUTEA
ASP_DATA
ASP_CLK
ASP_LATCH
SD
PCONT
PLLCE
PLLDATA
PLLCK
DO_ST
GND1
CD_R
CD_L
ECHO2
ECHO1
ECHO_ON
MIC_GND
MIC
SW5V
+9V
C318 0.1
C325 16V10
L800 RLL500050T-Y
C322 0.01
R320 22K
C801 6.3V100
C316 220P
C319 16V10
R318 10K
R321 8.2K
D300
R311 22K
R314 22K
R316 1
C323 0.033
C326 3300P
C331 50V1
R326 100
R328 100
R323 15K
IC300
BU9255FS-E2
SOUND MIXER
OSC
MUTE
VCC
OP_10
OP_11
LP_10
LP_11
MIX_1
GND
CNT
REF
OP21
OP20
LP21
LP20
MIX_0
R207 6.8K
R407 6.8K
R300 1.5K
R324 3.3K
C332 0.033
R208 6.8K
R408 6.8K
C321 0.039
C327 3300P
R883 4.7K
C329 50V4.7
C866 100P
C301 16V10
R312 100K
R313 1.2K
R315 4.7K
C320 35V47
R317 10K
R319 4.7K
R322 15K
C324 50V0.47
C328 0.015
C330 50V4.7
R325 6.8K
R301 4.7K
C865 100P
R403 2.2K
R203 2.2K
R204 22K
R404 22K
C210 50V2.2
C410 50V2.2
C302 16V10
D363
R304 4.7K
R329 1K
R303 10K
R302 15K
C303 100P
C304 100P
C305 0.22
C207 50V4.7
C407 50V4.7
C208 50V2.2
C408 50V2.2
C209 50V2.2
C409 50V2.2
R367 27K
C403 220P
C203 220P
C306 16V10
R421 100K
R221 100K
C411 16V10
C211 16V10
C425 0.1
C225 0.047
C426 0.047
C226 4700P
C413 50V0.33
C412 50V0.33
IC301
BH3874AKS2
AUDIO SOUND PROCESSOR
INRD
INLD
INRC
INLC
INRB
INLB
INRA
INLA
BPNF
BPOUT
CK
B
A
SCK
SI
STEPC
ALCC
ALCR
RECL
RECR
VFC1
GND
VFC2
MIC
DPLL1
DPLL2
DPLR1
DPLR2
PS1
PS2
F1L1
F1L2
OUTL
OUTR
VCC
CAP
FILTER
BASS5
BASS4
BASS3
BASS2
BASS1
HPFR3
HPFR2
HPFR1
HPFL3
HPFL2
HPFL1
F1R1
F1R2
F2L1
F2L2
F2R1
F2R2
F3L1
F3L2
F3R1
F3R2
F4L1
F4L2
F4R1
F4R2
F5L
F5R
C424 50V1
C224 50V1
R422 4.7K
C307 16V10
C308 0.1
R305 3.3K
C310 0.22
C311 0.22
R306 47K
C309 16V220
C312 0.1
R307 22K
C313 0.1
R308 15K
R220 68K
R219 390K
C223 0.068
R420 68K
C423 0.068
C221 0.068
C222 0.068
R218 82K
R419 390K
C422 0.068
C421 0.068
R418 82K
C212 50V0.33
C213 50V0.33
C414 0.15
C855 0.15
C415 0.15
C857 0.15
C214 0.15
C856 0.15
C215 0.15
C858 0.15
C416 0.027
C216 0.027
C417 0.027
C217 0.027
C418 5600P
C218 5600P
C419 5600P
C219 5600P
C420 1800P
C220 1800P


-9V
HP_R
HP_L
R230 39
C236 3300P
C436 3300P
R430 39
R231 39
R431 39
Q202, 402
KTD1304TA
MUTING SWITCH
C227 50V3.3
R227 6.8K
R228 15K
R229 100
C235 50V1
R223 27K
R225 4.7K
C231 680P
C230 16V10
C232 100P
C233 47P
Q202
R224 1K
C228 0.068
C229 0.01
R226 47K
C234 1000P
+9V
IC302
-9V
D801
RL1N4003N02
Q402
R423 27K
R425 4.7K
C428 0.068
R426 47K
C431 680P
SW5V
15V
C434 1000P
C427 50V3.3
C432 100P
C433 47P
R429 100
C435 50V1
R424 1K
C430 16V10
C429 0.01
R427 6.8K
R428 15K
9V
IC302
M5218AP
BUFFER AMP
Q303
KRA111STA
ADUIO MUTING CONTROL
15V
TGND
Q303
R327 4.7K
MUTEA
C315 50V2.2
PCONT
HP_SW
R222 4.7K
PGND
+9V
SUB+B
15V
10V
CN301
TO K POWER CIRCUIT (CP501) ON SCHEMATIC DIAGRAM-10
15V
TGND
OUT_L
OUT_R
AGND
DC_DET2
PCONT
HP_SW
CN300
TO K POWER CIRCUIT (CP500) ON SCHEMATIC DIAGRAM-10
Q856, 857
KTC3875GRTA
SWITCH
R873 100K
R872 12K
R876 1K
Q856
MO10V
R875 100K
R874 12K
R877 1K
Q857
D806 - D810
1SS355TE17
D806
D807
DC_DET1
D808
D810
D809


TO MP3 R MODULE CIRCUIT (CN1000) ON SCHEMATIC DIAGRAM-14
CP750
D+3.3V
D+3.3V
DGND
HCS
HDIN
HDOUT
HCLK
RST
DGND
CDSCK
CDLRCK
CDDATA
DGND
DISCK
DILRCK
DIDATA
DGND
OSCF0
C754 6.3V100
C755 1000P
L750
R762 10K
MHCS
MHDIN
MHCLK
MHRST
R871 1.8K
R870 1K
C863 82P
R763 100
R764 100
R765 100
MP3SCK
MP3LRCK
MP3DATA
R767 100
R768 100
R769 100
MHDIN
MHCS
MHCLK
NRST
R775 100
C756 0.1
IC750
VDD
1Y
1A
2Y
2A
3Y
3A
VSS
NC
6Y
6A
NC
5Y
5A
4Y
4A
IC750 TC74HC4050EL HEX NON-INVERTING BUFFER/ LEVEL SHIFTER (GATE BUFFER)
CDDATA
CDLRCK
MP3DIN
MP3HCS
MP3CLK
MP3RST
MP3DOT
R766 10K
Q754 KRC101STA SWITCH
SW5V
D100-D101 1SS355TE17
D100
D101
R111 22K
R118 47K
Q102
Q101-Q103 2SC2712GRT5T SWITCH
R116 10K
MM_IO
Q101
SW5V
R105 47K
R112 4.7K
MM_CLK
R109 1K
Q103
C103 10P
R117 4.7K
MM_CS
MM_REQ
C371 0.1
MM_RST
BLKCK
TO B VIDEO MODULE CIRCUIT (CN1000) ON SCHEMATIC DIAGRAM-3
CP710
A+3.3V
CVOUT
COUT
YOUT
VGND
VGND
R.+5V
D.+3.3V
D.+3.3V
D.GND
D.GND
XCK
EMPH
DILRCK
HRDY
DISCK
DIDATA
HINT
SBCK
VRST
HCK
HDIO
CDSCK
CDDATA
CDLRCK
IPFLG
HSEL
SUBC
CLDCK
BLKCK
L710-711 RLL500050T-Y
L710
L711
C713 6.3V100
C715 1000P
C714 1000P
C720 1000P
C716 6.3V100
C717 6.3V100
C718 0.47
R714 1K
R715 1K
R716 1K
R718 1K
R717 1K
R719 1K
R720 1K
R721 1K
R722 1K
R723 1K
R724 1K
IC710 TC7W14FTE12L INVERTER
R727 1K
R728 47
GND
VDD
C719 0.1
MP3SCK
MP3LRCK
MP3DATA
IC751 TC74HC157AFT MULTIPLEXER/QUAD 2 CHANNEL
L:A/H:B
1A
1B
1Y
2A
2B
2Y
GND
VCC
G
4A
4B
4Y
3A
3B
3Y
IC751
C757 0.1
R770 1.8K
R771 1.8K
R774 1.8K
R778 1.8K
R772 100
R773 100
R776 100
R777 1K
DILRCK
DISCK
DACSEL
DIDATA
SBCK
R884 10K
DGND
VMUTE
C712 6.3V1000
JK711
R710 1
R711 1
C710 0.01
R712 10K
Q710
R713 1K
Q711
R726 10K
Q711 KRA102STA MUTING SWITCH (V-SIGNAL)
Q710 2SC3226BT5M MUTING CONTROL (VIDEO SIGNAL)
NTSC
PAL
SW710
NTSC/PAL SELECTOR

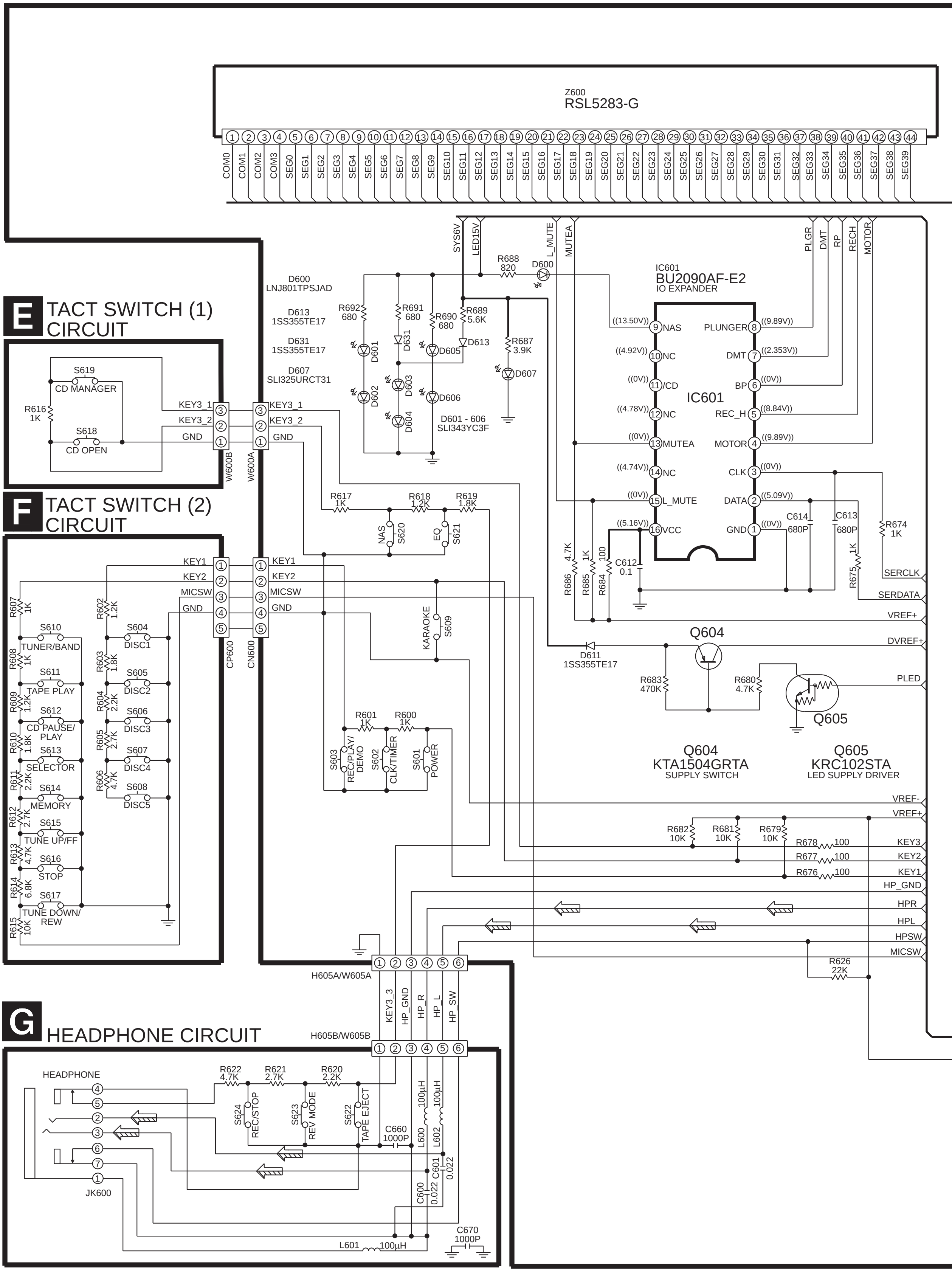

IC100
C2BBGF0000281
MICRO-PROCESSOR
Q100
KRC102STA
SWITCH (PCONT)
Q104-Q107
KRC101STA
SWITCH
Q100
Q104
Q105
Q106
Q107
X100
IN
OUT
GND
CSUBQ
CSQCK
POSITION
BOTTOMSW
CLAMP
OPEN
CHG_SW2
CHG_SW1
R155 47K
R156 4.7K
R157 4.7K
R158 4.7K
R159 4.7K
R153 4.7K
C106 10P
C107 10P
C108 10P
R138 4.7K
R142 100
R144 100
R146 100
R148 100
R149 100
R151 100
R126 47K
R129 1K
R130 100
R131 4.7K
R132 4.7K
R134 100
R114 1K
C105 0.01
R125 1K
R121 100
R122 100
R123 100
R124 100
R102 10K
R107 1K
R103 10K
R104 1.5K
NCD
C864 0.1
S-REQ
BLKCK
CNVSS
RST
DGND
XIN
XOUT
VSS
CDPCNT
CHG_HALF
CHG_PLGR
CHG_CW
CHG_CCW
NC
SEL(H : PM141/L :111)
EECS
EECLK
EEDA
VMUTE
VMODE
EMPHA
HRDY
HINT
VRST
HCLK
HDI
HDO
HSEL
MP3ERR
MP3RST
MP3HCS
MP3CLK
MP3DOT
MP3DIN
CCDSTAT
CMLD
CMDATA
CMCLK
VCC
VREF
AVSS
DACSEL
CRESTSW
CDRST
SDATA_I
SDATA_O
S-CLK
S-CS
SUBQ
SOUT
CHG SW2
CHG SW1
C111 33P
C112 33P
R160 22K
C113 0.1
C114 6.3V100
R869 1K
R886 10K
R167 10K
R170 10K
R172 10K
R174 10K
C115 470P
R887 0
R885 10K
R154 47K
R152 10K
CHG_HALF
CHG_PLGR
CHG_CW
CHG_CCW
VMUTE
EMPHA
HRDY
HINT
VRST
HCLK
HDIO
HSEL
MP3RST
DACSEL
CDRST
CSQCK
CMLD
CMDATA
CMCLK
CSUBQ
BLKCK
CCDSTAT
CRESTSW
R161 4.7K
R162 4.7K
R163 4.7K
R164 4.7K
R165 4.7K
R166 10K
R168 10K
R169 10K
R171 10K
R173 10K
R175 10K
R176 10K
R179 10K
R180 10K
MCLK
MDATA
MLD
SQCK
/RST
BLKCK
SUBQ
CDSTAT
RESTSW
L100
RLL500050T-Y
R150 10K
C110 1000P
C862 0.47
R882 220
C102 0.1
R106 100
R108 100
R110 100
C104 6.3V100
R115 68
R119 100
R120 100
R127 1K
R128 100
C109 10V100
R133 1K
R135 1K
R136 1K
R137 1K
R139 1K
R140 1K
R141 1K
R143 1K
R145 2.2K
R147 1K
CD_L
A_GND
CD_R
+3.3V
DIDATA
DILRCK
DISCK
CDSCK
SRDATA
CDDATA
LRCK
D.GND
TX
CLDCK
IPFLAG
+7.5V
EFM
P.GND
MCLK
MDATA
MLD
BLKCK
SQCK
SUBQ
SBCK
CDSTAT
/RST
SUBC
REST SW
VCOF
CP101
TO A
CD SERVO
CIRCUIT
(CN702) ON
SCHEMATIC
DIAGRAM-2


DC_DET2
Q800
2SB621ARSTA
SUPPLY SWITCH CD 7.5V
Q800
+7.5V
R810
10K
R809
1K
Q802
R801
100
Q804
Q805
C824
50V4.7
R807
39K
R808
15K
Q805
KRA111STA
DC DET SWITCH
Q804
KRA111STA
+5V CD:ON SUPPLY
SWITCH
Q802
KRC102STA
CD:ON SWITCH
NCD
R800
100
IC800
VCC
GND
O/P
2
3
1
IC801
VIN
SW OUT
GND
VOS
ON/OFF
1
2
3
4
5
IC801
SI8050JLF118
VOLTAGE REGULATOR
L803
L801
L802
C822
25V100
D803
RL1N4003N02
C802
16V220
C818
10V100
C804
10V100
D805
EK14FLH2K
C820
10V680
C821
0.22
Q806
IC800
BA033T
3.3V REGULATOR
Q806
KRA102STA
SWITCH (ON/OFF)
Q852
2SC2712GRT5T
SWITCH
CP850
2
1
FAN
R856
820K
C853
0.1
Q854
2SC2712GRT5T
Q852
R854
56K
R864
56K
C852
6.3V100
R860
100
Q854
R865
10K
D852
R852
27K
R853
10K
C851
6.3V220
R855
18
R859
220K
D853
R862
10K
C854
16V33
C860
50V2.2
D856
1SS355TE17
D850
1SS355TE17
R868
68K
R850
220K
D851
1SS355TE17
Q855
R863
4.7K
Q853
R861
5.6K
R857
820K
R858
10K
Q853
2SC2712GRT5T
SWITCH
Q855
2SB621ARTA
SWITCH
R851
4.7K
Q850
Q851
C850
50V4.7
Q803
R806
10K
D804
RL1N4003N02
Q850
2SA1162GRT5T
SWITCH
Q803
2SB621ARSTA
CD MOTOR SUPPLY SWITCH
Q851
KRC111STA
SWITCH
Q801
KRC102STA
SWITCH
R804
1K
R880
2.7K
D857
MA728TX
R881
2.7K
R878
100K
C861
50V10
R879
56K
C859
50V0.47
CHG_PLGR
Q801
R866
18K
R867
47K
JK500
4
3
2
1
SPEAKER
6 ohm
C118
0.47
R182
220
CHG_CW
CHG_HALF
CHG_CCW
CLAMP
OPEN
CHG_SW1
CHG_SW2
SW5V
POSITION
BOTTOMSW
14
13
12
11
10
9
8
7
6
5
4
3
2
1
CP100
1
2
3
4
CN500
TO O
MOTOR
CIRCUIT
(CN1) ON
SCHEMATIC
DIAGRAM-12
TO K
POWER
CIRCUIT
(JK501) ON
SCHEMATIC
DIAGRAM-10

SCHEMATIC DIAGRAM-5

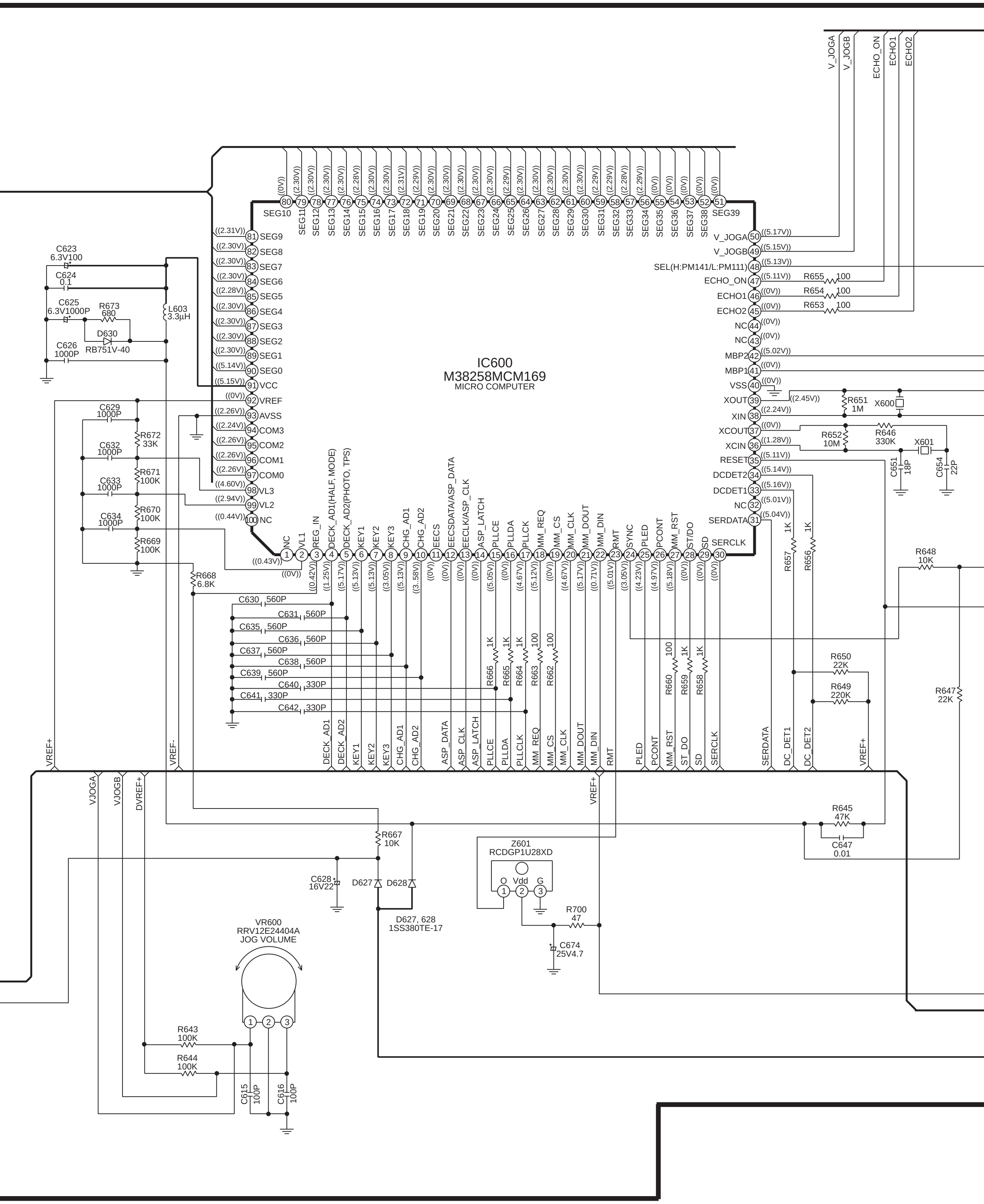
D PANEL CIRCUIT

: +B SIGNAL LINE ⇨ : Main Signal Line


Z600
RSL5283-G
COM0 COM1 COM2 COM3 SEG0 SEG1 SEG2 SEG3 SEG4 SEG5 SEG6 SEG7 SEG8 SEG9 SEG10 SEG11 SEG12 SEG13 SEG14 SEG15 SEG16 SEG17 SEG18 SEG19 SEG20 SEG21 SEG22 SEG23 SEG24 SEG25 SEG26 SEG27 SEG28 SEG29 SEG30 SEG31 SEG32 SEG33 SEG34 SEG35 SEG36 SEG37 SEG38 SEG39
SYS6V
LED15V
L_MUTE
MUTEA
PLGR
DMT
RP
RECH
MOTOR
D600
LNJ801TPSJAD
D613
1SS355TE17
D631
1SS355TE17
D607
SLI325URCT31
R688
820
D600
IC601
BU2090AF-E2
IO EXPANDER
R692 680
R691 680
R690 680
R689 5.6K
R687 3.9K
D601
D631
D605
D613
D607
D602
D603
D606
D604
D601 - 606
SLI343YC3F
((13.50V)) 9 NAS
((4.92V)) 10 NC
((0V)) 11 /CD
((4.78V)) 12 NC
((0V)) 13 MUTEA
((4.74V)) 14 NC
((0V)) 15 L_MUTE
((5.16V)) 16 VCC
PLUNGER 8 ((9.89V))
DMT 7 ((2.353V))
BP 6 ((0V))
REC_H 5 ((8.84V))
MOTOR 4 ((9.89V))
CLK 3 ((0V))
DATA 2 ((5.09V))
GND 1 ((0V))
IC601
C614 680P
C613 680P
R674 1K
R675 1K
C612 0.1
R686 4.7K
R685 1K
R684 100
SERCLK
SERDATA
VREF+
DVREF+
PLED
D611
1SS355TE17
Q604
R683 470K
R680 4.7K
Q605
Q604
KTA1504GRTA
SUPPLY SWITCH
Q605
KRC102STA
LED SUPPLY DRIVER
E TACT SWITCH (1) CIRCUIT
S619
CD MANAGER
R616 1K
S618
CD OPEN
KEY3_1
KEY3_2
GND
W600B
W600A
R617 1K
R618 1.2K
R619 1.8K
NAS S620
EQ S621
F TACT SWITCH (2) CIRCUIT
KEY1
KEY2
MICSW
GND
CP600
CN600
R607 1K
S610 TUNER/BAND
R608 1K
S611 TAPE PLAY
R609 1.2K
S612 CD PAUSE/ PLAY
R610 1.8K
S613 SELECTOR
R611 2.2K
S614 MEMORY
R612 2.7K
S615 TUNE UP/FF
R613 4.7K
S616 STOP
R614 6.8K
S617 TUNE DOWN/ REW
R615 10K
R602 1.2K
S604 DISC1
R603 1.8K
S605 DISC2
R604 2.2K
S606 DISC3
R605 2.7K
S607 DISC4
R606 4.7K
S608 DISC5
KARAOKE S609
R601 1K
R600 1K
S603 REC/PLAY/ DEMO
S602 CLK/TIMER
S601 POWER
VREF-
VREF+
R682 10K
R681 10K
R679 10K
R678 100
R677 100
R676 100
KEY3
KEY2
KEY1
HP_GND
HPR
HPL
HPSW
MICSW
R626 22K
H605A/W605A
KEY3_3
HP_GND
HP_R
HP_L
HP_SW
H605B/W605B
G HEADPHONE CIRCUIT
HEADPHONE
JK600
R622 4.7K
R621 2.7K
R620 2.2K
S624 REC/STOP
S623 REV MODE
S622 TAPE EJECT
C660 1000P
L600 100µH
L602 100µH
C601 0.022
C600 0.022
C670 1000P
L601 100µH

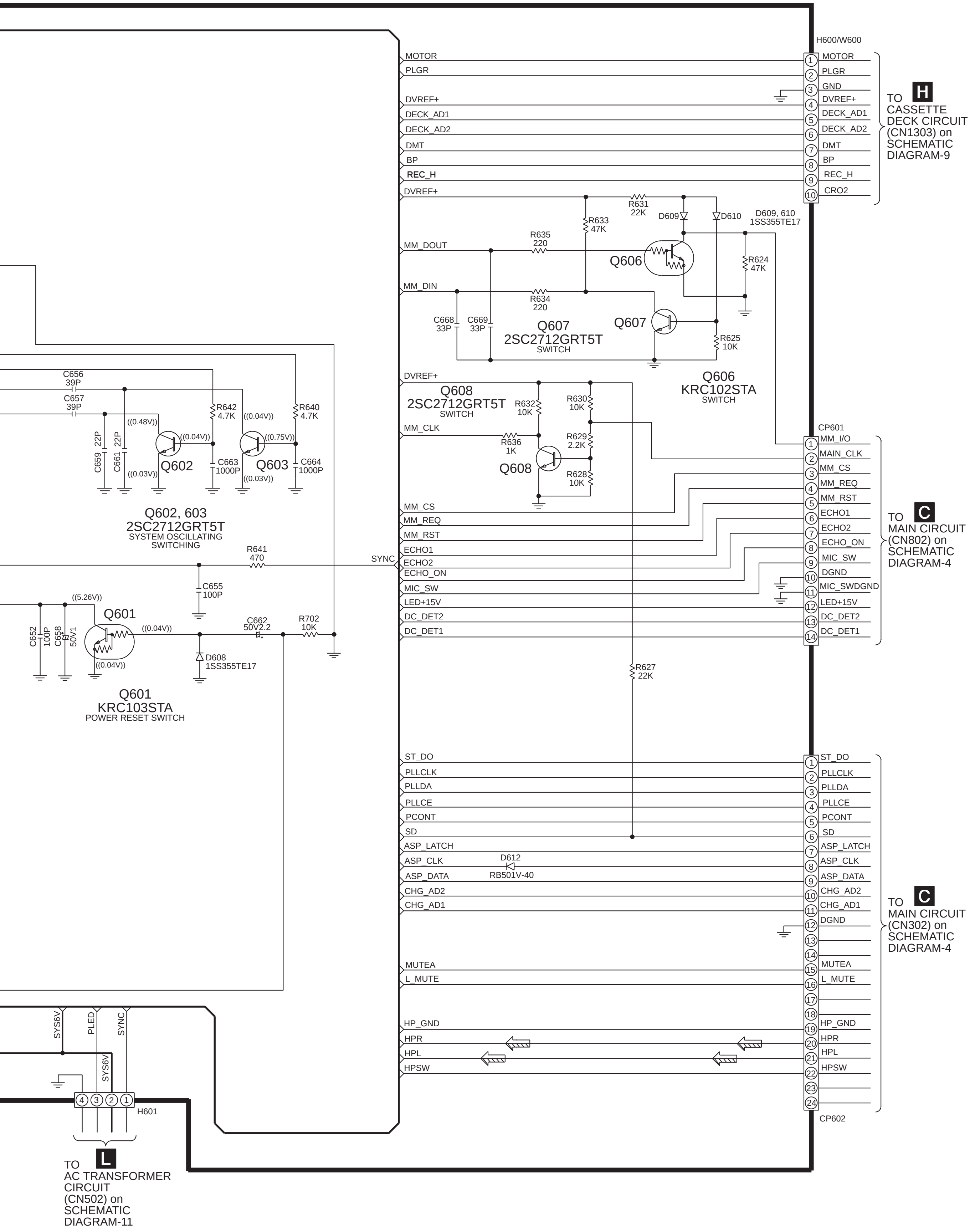
SCHEMATIC DIAGRAM-6

: +B SIGNAL LINE


IC600
M38258MCM169
MICRO COMPUTER
V_JOGA
V_JOGB
ECHO_ON
ECHO1
ECHO2
SEG10
SEG11
SEG12
SEG13
SEG14
SEG15
SEG16
SEG17
SEG18
SEG19
SEG20
SEG21
SEG22
SEG23
SEG24
SEG25
SEG26
SEG27
SEG28
SEG29
SEG30
SEG31
SEG32
SEG33
SEG34
SEG35
SEG36
SEG37
SEG38
SEG39
SEG9
SEG8
SEG7
SEG6
SEG5
SEG4
SEG3
SEG2
SEG1
SEG0
VCC
VREF
AVSS
COM3
COM2
COM1
COM0
VL3
VL2
NC
SEL(H:PM141/L:PM111)
ECHO_ON
ECHO1
ECHO2
NC
NC
MBP2
MBP1
VSS
XOUT
XIN
XCOUT
XCIN
RESET
DCDET2
DCDET1
NC
SERDATA
SERCLK
NC
VL1
REG_IN
DECK_AD1(HALF, MODE)
DECK_AD2(PHOTO, TPS)
KEY1
KEY2
KEY3
CHG_AD1
CHG_AD2
EECS
EECSDATA/ASP_DATA
EECLK/ASP_CLK
ASP_LATCH
PLLCE
PLLDA
PLLCK
MM_REQ
MM_CS
MM_CLK
MM_DOUT
MM_DIN
RMT
SYNC
PLED
PCONT
MM_RST
ST/DO
SD
SERCLK
((0V))
((2.30V))
((2.31V))
((2.29V))
((2.28V))
((5.14V))
((5.15V))
((2.26V))
((2.24V))
((4.60V))
((2.94V))
((0.44V))
((0.43V))
((0.42V))
((1.25V))
((5.17V))
((5.13V))
((3.05V))
((3.58V))
((5.05V))
((4.67V))
((5.12V))
((0.71V))
((5.01V))
((4.23V))
((4.97V))
((5.18V))
((5.16V))
((5.11V))
((5.02V))
((2.45V))
((1.28V))
((5.04V))
C623
6.3V100
C624
0.1
C625
6.3V1000P
R673
680
D630
RB751V-40
C626
1000P
L603
3.3µH
C629
1000P
R672
33K
C632
1000P
R671
100K
C633
1000P
R670
100K
C634
1000P
R669
100K
R668
6.8K
R655 100
R654 100
R653 100
R651
1M
X600
R652
10M
R646
330K
X601
C651
18P
C654
22P
R657 1K
R656 1K
R648
10K
R650
22K
R649
220K
R647
22K
C630 560P
C631 560P
C635 560P
C636 560P
C637 560P
C638 560P
C639 560P
C640 330P
C641 330P
C642 330P
R666 1K
R665 1K
R664 1K
R663 100
R662 100
R660 100
R659 1K
R658 1K
VREF+
VREF-
DECK_AD1
DECK_AD2
KEY1
KEY2
KEY3
CHG_AD1
CHG_AD2
ASP_DATA
ASP_CLK
ASP_LATCH
PLLCE
PLLDA
PLLCLK
MM_REQ
MM_CS
MM_CLK
MM_DOUT
MM_DIN
RMT
PLED
PCONT
MM_RST
ST_DO
SD
SERCLK
SERDATA
DC_DET1
DC_DET2
VREF+
VJOGA
VJOGB
DVREF+
VREF+
R645
47K
C647
0.01
R667
10K
C628
16V22
D627
D628
D627, 628
1SS380TE-17
Z601
RCDGP1U28XD
O
Vdd
G
R700
47
C674
25V4.7
VR600
RRV12E24404A
JOG VOLUME
R643
100K
R644
100K
C615
100P
C616
100P

SCHEMATIC DIAGRAM-7

—— : +B SIGNAL LINE ⇨ : Main Signal Line


H600/W600
1 MOTOR
2 PLGR
3 GND
4 DVREF+
5 DECK_AD1
6 DECK_AD2
7 DMT
8 BP
9 REC_H
10 CRO2
TO H CASSETTE DECK CIRCUIT (CN1303) on SCHEMATIC DIAGRAM-9
MOTOR
PLGR
DVREF+
DECK_AD1
DECK_AD2
DMT
BP
REC_H
DVREF+
R631 22K
D609
D610
D609, 610 1SS355TE17
R633 47K
R635 220
MM_DOUT
Q606
R624 47K
MM_DIN
R634 220
C668 33P
C669 33P
Q607 2SC2712GRT5T SWITCH
Q607
R625 10K
Q606 KRC102STA SWITCH
DVREF+
Q608 2SC2712GRT5T SWITCH
R632 10K
R630 10K
R629 2.2K
MM_CLK
R636 1K
Q608
R628 10K
CP601
1 MM_I/O
2 MAIN_CLK
3 MM_CS
4 MM_REQ
5 MM_RST
6 ECHO1
7 ECHO2
8 ECHO_ON
9 MIC_SW
10 DGND
11 MIC_SWDGND
12 LED+15V
13 DC_DET2
14 DC_DET1
TO C MAIN CIRCUIT (CN802) on SCHEMATIC DIAGRAM-4
MM_CS
MM_REQ
MM_RST
ECHO1
ECHO2
ECHO_ON
MIC_SW
LED+15V
DC_DET2
DC_DET1
SYNC
C656 39P
C657 39P
R642 4.7K
R640 4.7K
((0.48V))
((0.04V))
((0.04V))
((0.75V))
C659 22P
C661 22P
((0.03V))
Q602
C663 1000P
Q603
((0.03V))
C664 1000P
Q602, 603 2SC2712GRT5T SYSTEM OSCILLATING SWITCHING
R641 470
C655 100P
((5.26V))
Q601
((0.04V))
C662 50V2.2
R702 10K
C652 100P
C658 50V1
((0.04V))
D608 1SS355TE17
Q601 KRC103STA POWER RESET SWITCH
R627 22K
ST_DO
PLLCLK
PLLDA
PLLCE
PCONT
SD
ASP_LATCH
ASP_CLK
D612 RB501V-40
ASP_DATA
CHG_AD2
CHG_AD1
MUTEA
L_MUTE
HP_GND
HPR
HPL
HPSW
1 ST_DO
2 PLLCLK
3 PLLDA
4 PLLCE
5 PCONT
6 SD
7 ASP_LATCH
8 ASP_CLK
9 ASP_DATA
10 CHG_AD2
11 CHG_AD1
12 DGND
13
14
15 MUTEA
16 L_MUTE
17
18
19 HP_GND
20 HPR
21 HPL
22 HPSW
23
24
CP602
TO C MAIN CIRCUIT (CN302) on SCHEMATIC DIAGRAM-4
SYS6V
PLED
SYNC
SYS6V
4 3 2 1
H601
TO L AC TRANSFORMER CIRCUIT (CN502) on SCHEMATIC DIAGRAM-11

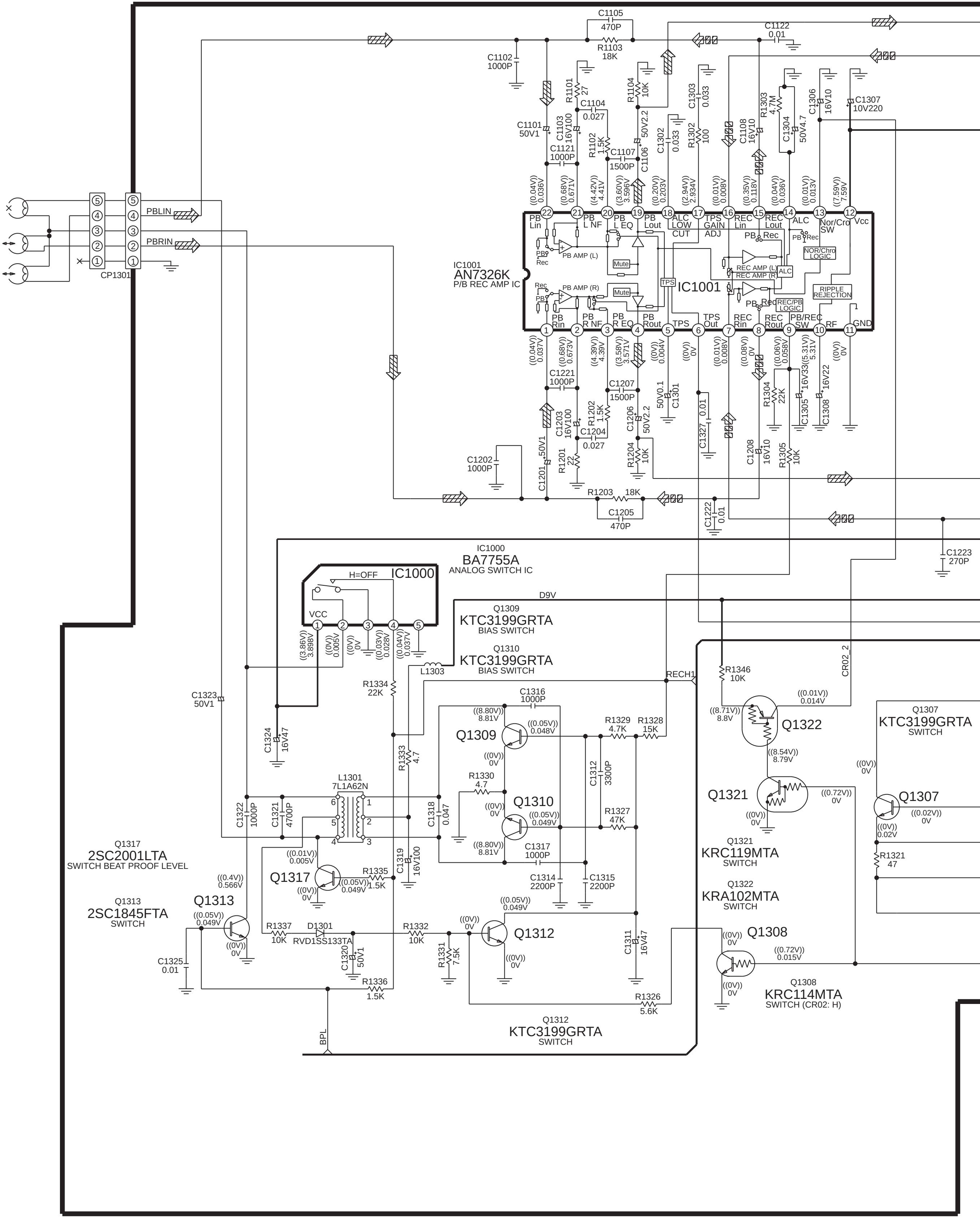
SCHEMATIC DIAGRAM-8

H DECK CIRCUIT

▨ : Playback Signal line

▨ : Rec Signal line

— : +B Signal Line



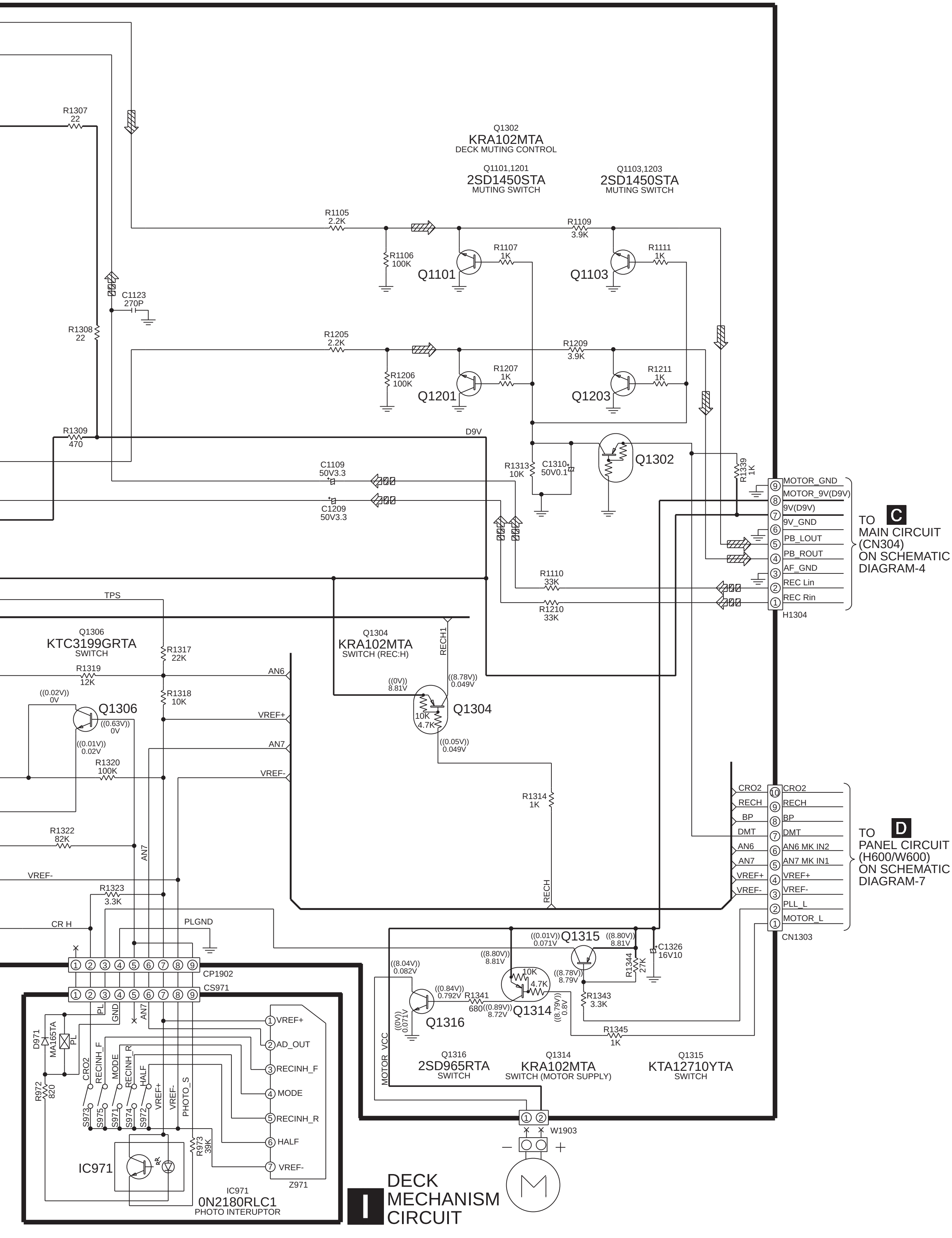
CP1301
PBLIN
PBRIN
IC1001
AN7326K
P/B REC AMP IC
PB AMP (L)
PB AMP (R)
REC AMP (L)
REC AMP (R)
Mute
TPS
ALC
NOR/Chro LOGIC
REC/PB LOGIC
RIPPLE REJECTION
PB Lin
PB L NF
PB L EQ
PB Lout
ALC LOW CUT
TPS GAIN ADJ
REC Lin
REC Lout
Nor/Cro SW
Vcc
PB Rin
PB R NF
PB R EQ
PB Rout
TPS
TPS Out
REC Rin
REC Rout
PB/REC SW
RF
GND
C1105 470P
R1103 18K
C1122 0.01
C1102 1000P
R1101 27
C1104 0.027
R1104 10K
C1303 0.033
R1303 4.7M
C1306 16V10
C1307 10V220
C1101 50V1
C1103 16V100
C1121 1000P
R1102 1.5K
C1107 1500P
C1106 50V2.2
C1302 0.033
R1302 100
C1108 16V10
C1304 50V4.7
C1221 1000P
C1203 16V100
R1202 1.5K
C1204 0.027
C1207 1500P
C1206 50V2.2
C1301 50V0.1
C1327 0.01
R1304 22K
C1305 16V33
C1308 16V22
C1202 1000P
C1201 50V1
R1201 22
R1204 10K
C1208 16V10
R1305 10K
R1203 18K
C1205 470P
C1222 0.01
C1223 270P
IC1000
BA7755A
ANALOG SWITCH IC
H=OFF
VCC
D9V
Q1309
KTC3199GRTA
BIAS SWITCH
Q1310
KTC3199GRTA
BIAS SWITCH
L1303
R1334 22K
C1316 1000P
RECH1
R1329 4.7K
R1328 15K
C1323 50V1
C1324 16V47
R1333 4.7
R1330 4.7
C1312 3300P
R1327 47K
L1301 7L1A62N
C1322 1000P
C1321 4700P
C1318 0.047
C1317 1000P
C1319 16V100
C1314 2200P
C1315 2200P
Q1317
2SC2001LTA
SWITCH BEAT PROOF LEVEL
Q1313
2SC1845FTA
SWITCH
R1335 1.5K
R1337 10K
D1301 RVD1SS133TA
R1332 10K
Q1312
C1320 50V1
R1331 7.5K
C1311 16V47
C1325 0.01
R1336 1.5K
R1326 5.6K
BPL
Q1312
KTC3199GRTA
SWITCH
R1346 10K
CR02_2
Q1322
Q1321
Q1307
KTC3199GRTA
SWITCH
R1321 47
Q1321
KRC119MTA
SWITCH
Q1322
KRA102MTA
SWITCH
Q1308
Q1308
KRC114MTA
SWITCH (CR02: H)

SCHEMATIC DIAGRAM-9

▨ : Playback Signal line

: +B Signal Line

▨ : Rec Signal line



R1307
22
Q1302
KRA102MTA
DECK MUTING CONTROL
Q1101,1201
2SD1450STA
MUTING SWITCH
Q1103,1203
2SD1450STA
MUTING SWITCH
R1105
2.2K
R1109
3.9K
R1106
100K
R1107
1K
R1111
1K
Q1101
Q1103
C1123
270P
R1308
22
R1205
2.2K
R1209
3.9K
R1206
100K
R1207
1K
R1211
1K
Q1201
Q1203
R1309
470
D9V
R1313
10K
C1310
50V0.1
Q1302
R1339
1K
C1109
50V3.3
C1209
50V3.3
R1110
33K
R1210
33K
MOTOR_GND
MOTOR_9V(D9V)
9V(D9V)
9V_GND
PB_LOUT
PB_ROUT
AF_GND
REC Lin
REC Rin
H1304
TO C MAIN CIRCUIT (CN304) ON SCHEMATIC DIAGRAM-4
TPS
Q1306
KTC3199GRTA
SWITCH
R1317
22K
R1319
12K
AN6
R1318
10K
((0.02V))
0V
Q1306
((0.63V))
0V
VREF+
((0.01V))
0.02V
AN7
R1320
100K
VREF-
Q1304
KRA102MTA
SWITCH (REC:H)
RECH1
((0V))
8.81V
((8.78V))
0.049V
Q1304
10K
4.7K
((0.05V))
0.049V
R1314
1K
R1322
82K
AN7
VREF-
R1323
3.3K
RECH
CRO2
RECH
BP
DMT
AN6
AN7
VREF+
VREF-
CRO2
RECH
BP
DMT
AN6 MK IN2
AN7 MK IN1
VREF+
VREF-
PLL_L
MOTOR_L
CN1303
TO D PANEL CIRCUIT (H600/W600) ON SCHEMATIC DIAGRAM-7
CR H
PLGND
CP1902
CS971
((0.01V))
0.071V
Q1315
((8.80V))
8.81V
C1326
16V10
((8.04V))
0.082V
((8.80V))
8.81V
10K
4.7K
((8.78V))
8.79V
R1344
27K
((0.84V))
0.792V
R1341
680
((0.89V))
8.72V
Q1314
((8.79V))
0.8V
R1343
3.3K
Q1316
((0V))
0.071V
R1345
1K
PL
GND
AN7
D971
MA165TA
PL
VREF+
AD_OUT
RECINH_F
MODE
RECINH_R
HALF
VREF-
CRO2
RECINH_F
MODE
RECINH_R
HALF
VREF+
VREF-
PHOTO_S
R972
820
S973
S975
S971
S974
S972
R973
39K
IC971
Z971
IC971
0N2180RLC1
PHOTO INTERUPTOR
MOTOR VCC
Q1316
2SD965RTA
SWITCH
Q1314
KRA102MTA
SWITCH (MOTOR SUPPLY)
Q1315
KTA12710YTA
SWITCH
W1903
−
+
M
I DECK MECHANISM CIRCUIT

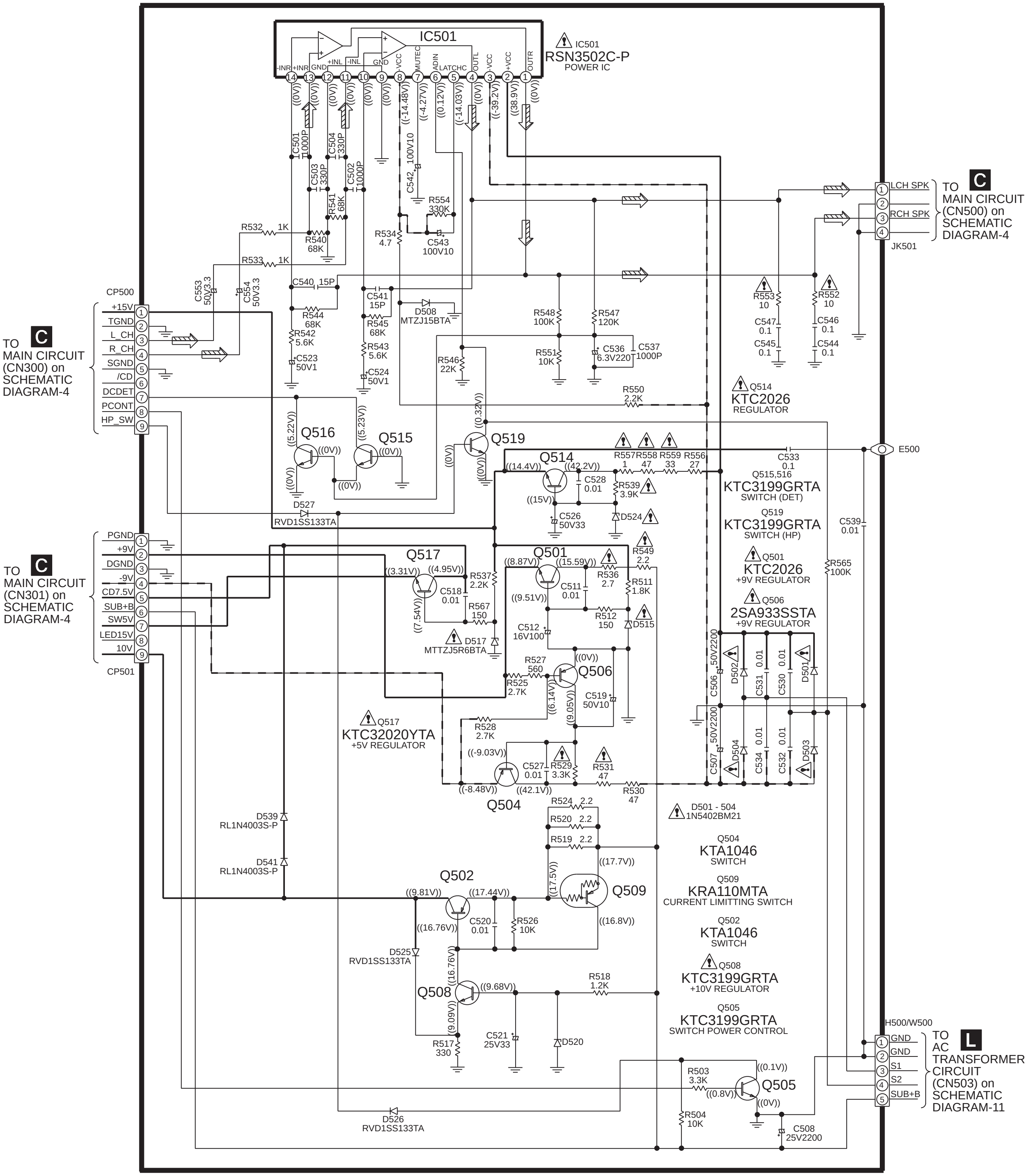
SCHEMATIC DIAGRAM-10

K POWER CIRCUIT

⇨ : MAIN SIGNAL LINE

- - - : -B SIGNAL LINE

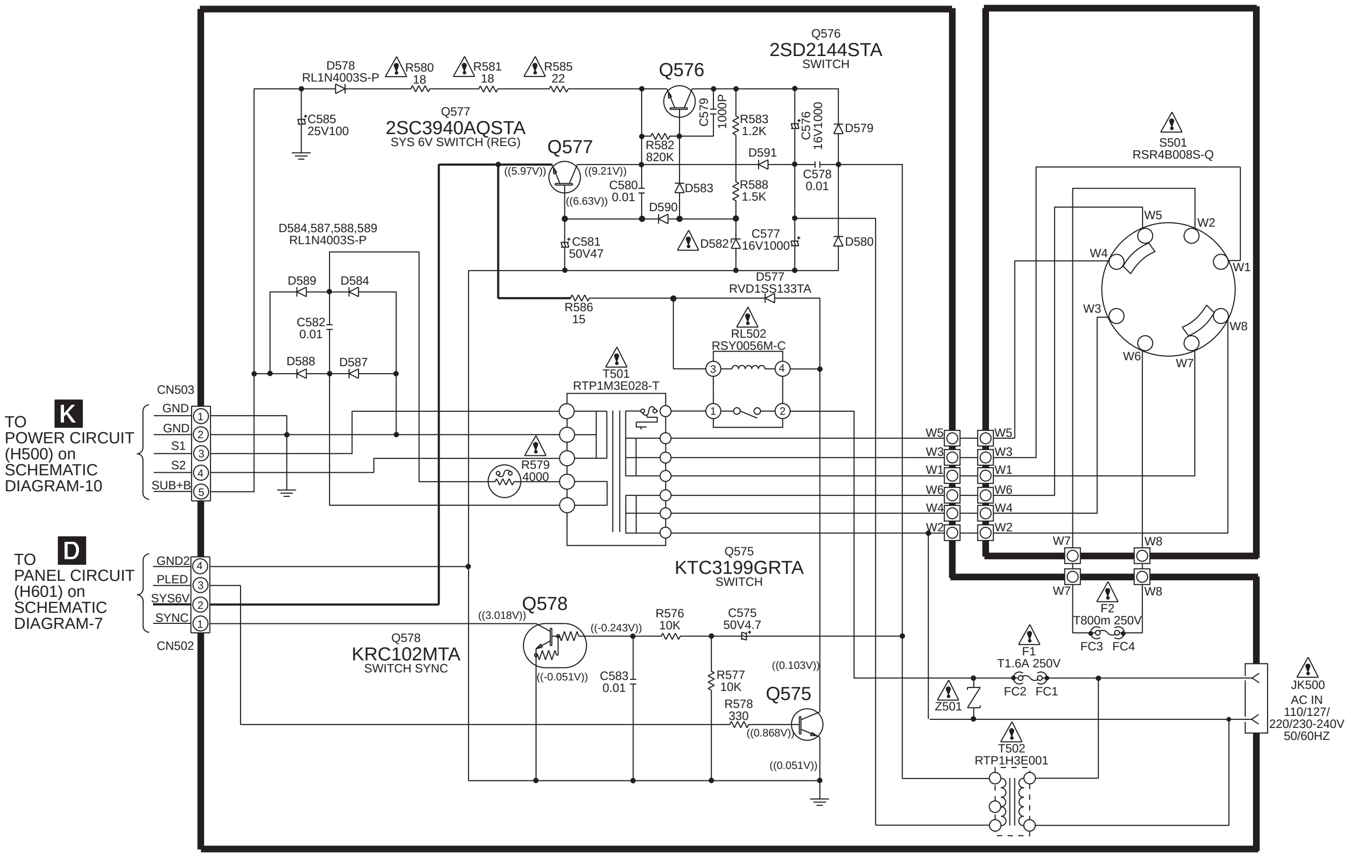
—— : +B SIGNAL LINE


IC501
IC501 RSN3502C-P POWER IC
-INR +INR GND +INL -INL GND -VCC MUTEC ADIN LATCHC OUTL -VCC +VCC OUTR
14 13 12 11 10 9 8 7 6 5 4 3 2 1
(0V) (0V) (0V) (0V) (0V) (0V) (-14.48V) (-4.27V) (0.12V) (-14.03V) (0V) (-39.2V) (38.9V) (0V)
C501 1000P
C504 330P
C503 330P
C502 1000P
R541 68K
C542 100V10
R554 330K
R534 4.7
C543 100V10
R532 1K
R540 68K
R533 1K
C553 50V3.3
C554 50V3.3
C540 15P
C541 15P
D508 MTZJ15BTA
R544 68K
R545 68K
R542 5.6K
R543 5.6K
C523 50V1
C524 50V1
R546 22K
R548 100K
R547 120K
R551 10K
C536 6.3V220
C537 1000P
R550 2.2K
CP500
+15V TGND L_CH R_CH SGND /CD DCDET PCONT HP_SW
1 2 3 4 5 6 7 8 9
TO C MAIN CIRCUIT (CN300) on SCHEMATIC DIAGRAM-4
Q516
Q515
Q519
(5.22V) (5.23V) (0V) (0V) (0V) (0V) (0.32V) (0V) (0V)
D527 RVD1SS133TA
Q514
(14.4V) (42.2V) (15V)
C528 0.01
C526 50V33
D524
R557 1 R558 47 R559 33 R556 27
R539 3.9K
C533 0.1
E500
LCH SPK RCH SPK
1 2 3 4
JK501
TO C MAIN CIRCUIT (CN500) on SCHEMATIC DIAGRAM-4
R553 10
R552 10
C547 0.1
C546 0.1
C545 0.1
C544 0.1
Q514 KTC2026 REGULATOR
Q515,516 KTC3199GRTA SWITCH (DET)
Q519 KTC3199GRTA SWITCH (HP)
Q501 KTC2026 +9V REGULATOR
Q506 2SA933SSTA +9V REGULATOR
C539 0.01
R565 100K
CP501
PGND +9V DGND -9V CD7.5V SUB+B SW5V LED15V 10V
1 2 3 4 5 6 7 8 9
TO C MAIN CIRCUIT (CN301) on SCHEMATIC DIAGRAM-4
Q517
(3.31V) (4.95V) (7.54V)
R537 2.2K
C518 0.01
R567 150
D517 MTTZJ5R6BTA
Q501
(8.87V) (15.59V) (9.51V)
R536 2.7
R549 2.2
R511 1.8K
C511 0.01
R512 150
D515
C512 16V100
R527 560
R525 2.7K
Q506
(0V) (6.14V) (9.05V)
C519 50V10
Q517 KTC32020YTA +5V REGULATOR
R528 2.7K
(-9.03V)
C527 0.01
R529 3.3K
R531 47
R530 47
(-8.48V) (42.1V)
Q504
C506 50V2200
C507 50V2200
D502 D501 D504 D503
C531 0.01 C530 0.01 C534 0.01 C532 0.01
R524 2.2
R520 2.2
R519 2.2
D501 - 504 1N5402BM21
Q504 KTA1046 SWITCH
Q509 KRA110MTA CURRENT LIMITTING SWITCH
Q502 KTA1046 SWITCH
Q508 KTC3199GRTA +10V REGULATOR
Q505 KTC3199GRTA SWITCH POWER CONTROL
D539 RL1N4003S-P
D541 RL1N4003S-P
Q502
(9.81V) (17.44V) (16.76V)
(17.7V) (17.5V) (16.8V)
Q509
C520 0.01
R526 10K
D525 RVD1SS133TA
Q508
(16.76V) (9.68V) (9.09V)
R518 1.2K
R517 330
C521 25V33
D520
H500/W500
GND GND S1 S2 SUB+B
1 2 3 4 5
TO L AC TRANSFORMER CIRCUIT (CN503) on SCHEMATIC DIAGRAM-11
R503 3.3K
Q505
(0.1V) (0.8V) (0V)
R504 10K
C508 25V2200
D526 RVD1SS133TA

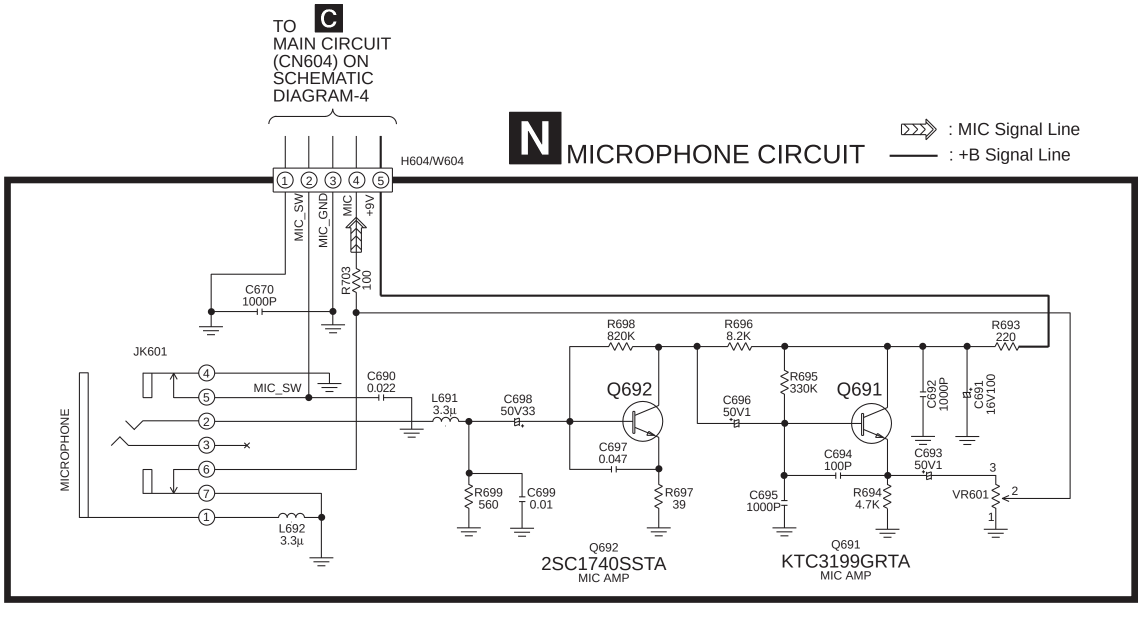
SCHEMATIC DIAGRAM-11

L AC TRANSFORMER CIRCUIT

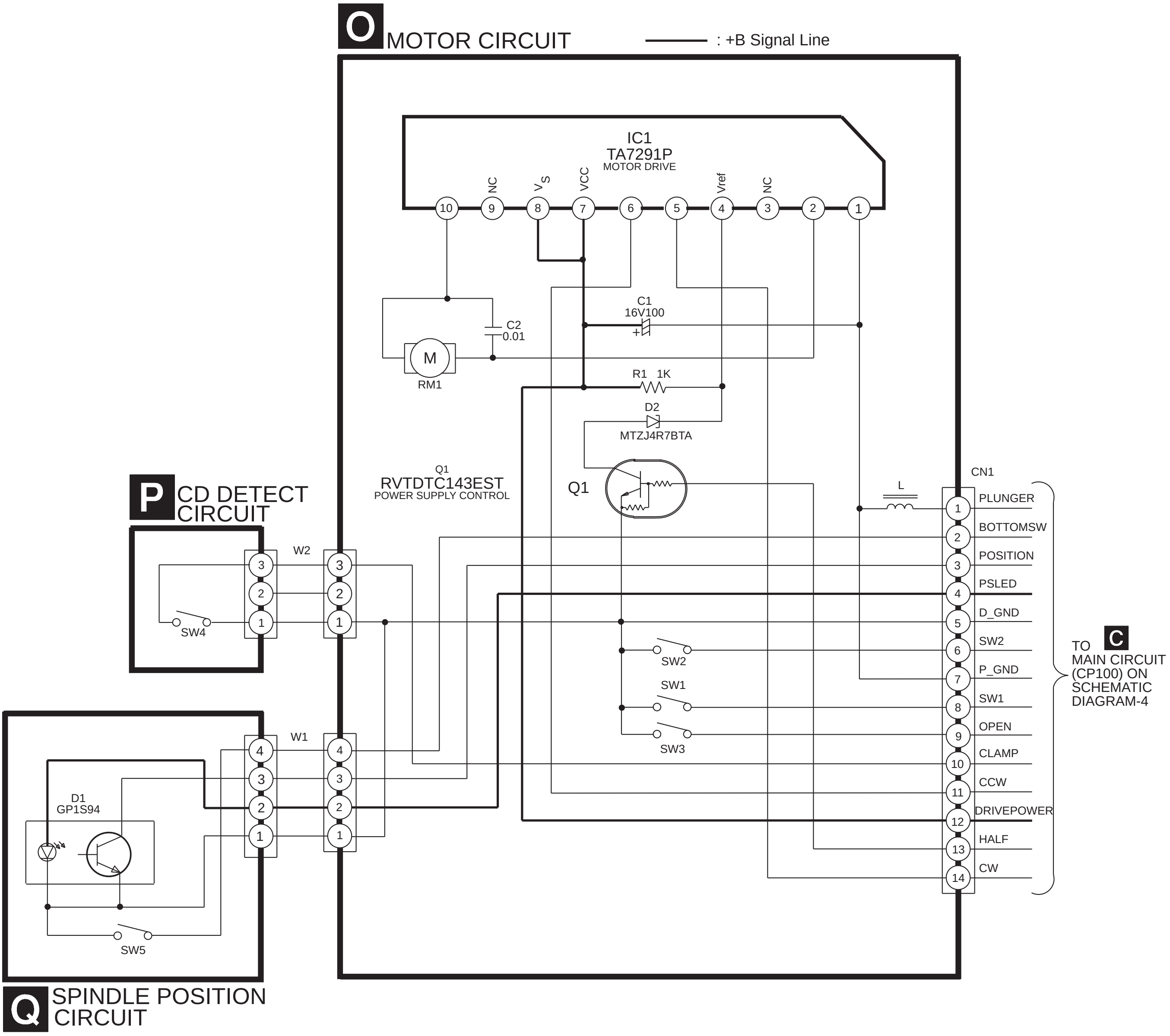
M VOLTAGE SELECTOR CIRCUIT


: +B signal line
Q576
2SD2144STA
SWITCH
D578
RL1N4003S-P
R580 18
R581 18
R585 22
C585 25V100
Q577
2SC3940AQSTA
SYS 6V SWITCH (REG)
C579 1000P
R583 1.2K
C576 16V1000
D579
R582 820K
D591
((5.97V))
((9.21V))
((6.63V))
C580 0.01
D583
R588 1.5K
C578 0.01
D590
C581 50V47
D582
C577 16V1000
D580
D584,587,588,589
RL1N4003S-P
D589
D584
C582 0.01
D588
D587
D577
RVD1SS133TA
R586 15
RL502
RSY0056M-C
T501
RTP1M3E028-T
R579 4000
CN503
TO K POWER CIRCUIT (H500) on SCHEMATIC DIAGRAM-10
GND
GND
S1
S2
SUB+B
TO D PANEL CIRCUIT (H601) on SCHEMATIC DIAGRAM-7
GND2
PLED
SYS6V
SYNC
CN502
Q578
KRC102MTA
SWITCH SYNC
((3.018V))
((-0.243V))
((-0.051V))
R576 10K
C575 50V4.7
C583 0.01
R577 10K
R578 330
Q575
KTC3199GRTA
SWITCH
((0.103V))
((0.868V))
((0.051V))
S501
RSR4B008S-Q
W1 W2 W3 W4 W5 W6 W7 W8
F2
T800m 250V
FC3 FC4
F1
T1.6A 250V
FC2 FC1
Z501
T502
RTP1H3E001
JK500
AC IN
110/127/
220/230-240V
50/60HZ

N MICROPHONE CIRCUIT


TO C MAIN CIRCUIT (CN604) ON SCHEMATIC DIAGRAM-4
H604/W604
: MIC Signal Line
: +B Signal Line
MIC_SW
MIC_GND
MIC
+9V
R703 100
C670 1000P
JK601
MICROPHONE
MIC_SW
C690 0.022
L691 3.3µ
C698 50V33
R699 560
C699 0.01
L692 3.3µ
R698 820K
Q692
C697 0.047
R697 39
Q692
2SC1740SSTA
MIC AMP
R696 8.2K
R695 330K
C696 50V1
Q691
C694 100P
C695 1000P
R694 4.7K
Q691
KTC3199GRTA
MIC AMP
R693 220
C692 1000P
C691 16V100
C693 50V1
VR601

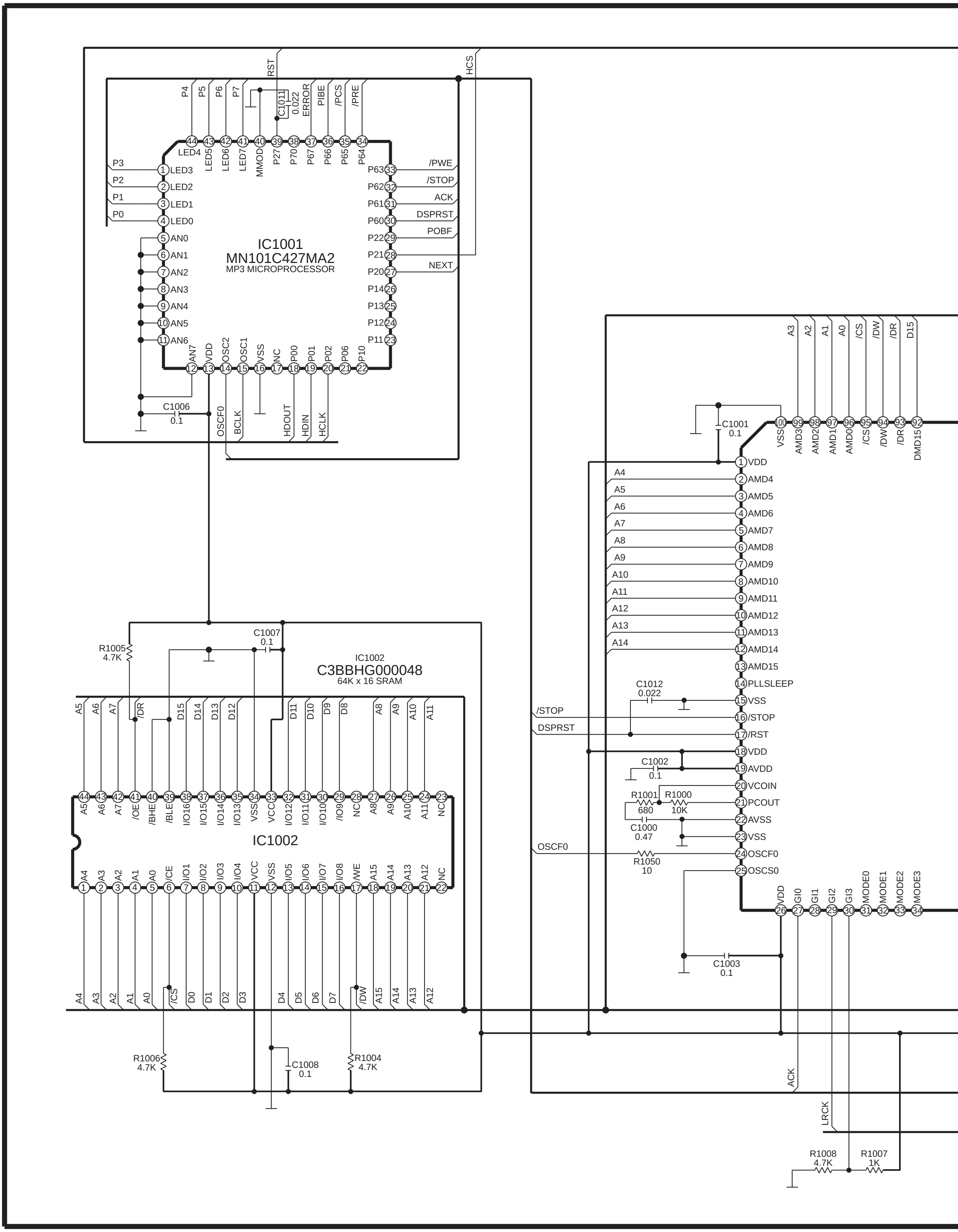
SCHEMATIC DIAGRAM-12


O
MOTOR CIRCUIT
: +B Signal Line
IC1
TA7291P
MOTOR DRIVE
NC
VS
VCC
Vref
NC
10
9
8
7
6
5
4
3
2
1
C1
16V100
+
C2
0.01
M
RM1
R1 1K
D2
MTZJ4R7BTA
Q1
RVTDTC143EST
POWER SUPPLY CONTROL
Q1
L
CN1
PLUNGER
BOTTOMSW
POSITION
PSLED
D_GND
SW2
P_GND
SW1
OPEN
CLAMP
CCW
DRIVEPOWER
HALF
CW
SW2
SW1
SW3
TO C MAIN CIRCUIT (CP100) ON SCHEMATIC DIAGRAM-4
P
CD DETECT CIRCUIT
W2
SW4
W1
D1
GP1S94
SW5
Q
SPINDLE POSITION CIRCUIT

SCHEMATIC DIAGRAM-13

R MP3 MODULE CIRCUIT

: +B SIGNAL LINE


IC1001
MN101C427MA2
MP3 MICROPROCESSOR
RST
HCS
P4
P5
P6
P7
C1011
0.022
ERROR
PIBE
/PCS
/PRE
LED4
LED5
LED6
LED7
MMOD
P27
P70
P67
P66
P65
P64
P3
P2
P1
P0
LED3
LED2
LED1
LED0
AN0
AN1
AN2
AN3
AN4
AN5
AN6
AN7
VDD
OSC2
OSC1
VSS
NC
P00
P01
P02
P06
P10
P63
P62
P61
P60
P22
P21
P20
P14
P13
P12
P11
/PWE
/STOP
ACK
DSPRST
POBF
NEXT
C1006
0.1
OSCF0
BCLK
HDOUT
HDIN
HCLK
IC1002
C3BBHG000048
64K x 16 SRAM
R1005
4.7K
C1007
0.1
A5
A6
A7
/DR
D15
D14
D13
D12
D11
D10
D9
D8
A8
A9
A10
A11
/OE
/BHE
/BLE
I/O16
I/O15
I/O14
I/O13
VSS
VCC
I/O12
I/O11
I/O10
I/O9
NC
A4
A3
A2
A1
A0
/CE
I/O1
I/O2
I/O3
I/O4
I/O5
I/O6
I/O7
I/O8
/WE
A15
A14
A13
A12
/CS
D0
D1
D2
D3
D4
D5
D6
D7
/DW
R1006
4.7K
C1008
0.1
R1004
4.7K
C1001
0.1
VSS
AMD3
AMD2
AMD1
AMD0
DMD15
VDD
AMD4
AMD5
AMD6
AMD7
AMD8
AMD9
AMD10
AMD11
AMD12
AMD13
AMD14
AMD15
PLLSLEEP
C1012
0.022
/RST
AVDD
VCOIN
PCOUT
AVSS
C1002
0.1
R1001
680
R1000
10K
C1000
0.47
OSCF0
OSCS0
R1050
10
GI0
GI1
GI2
GI3
MODE0
MODE1
MODE2
MODE3
C1003
0.1
ACK
LRCK
R1008
4.7K
R1007
1K
D15

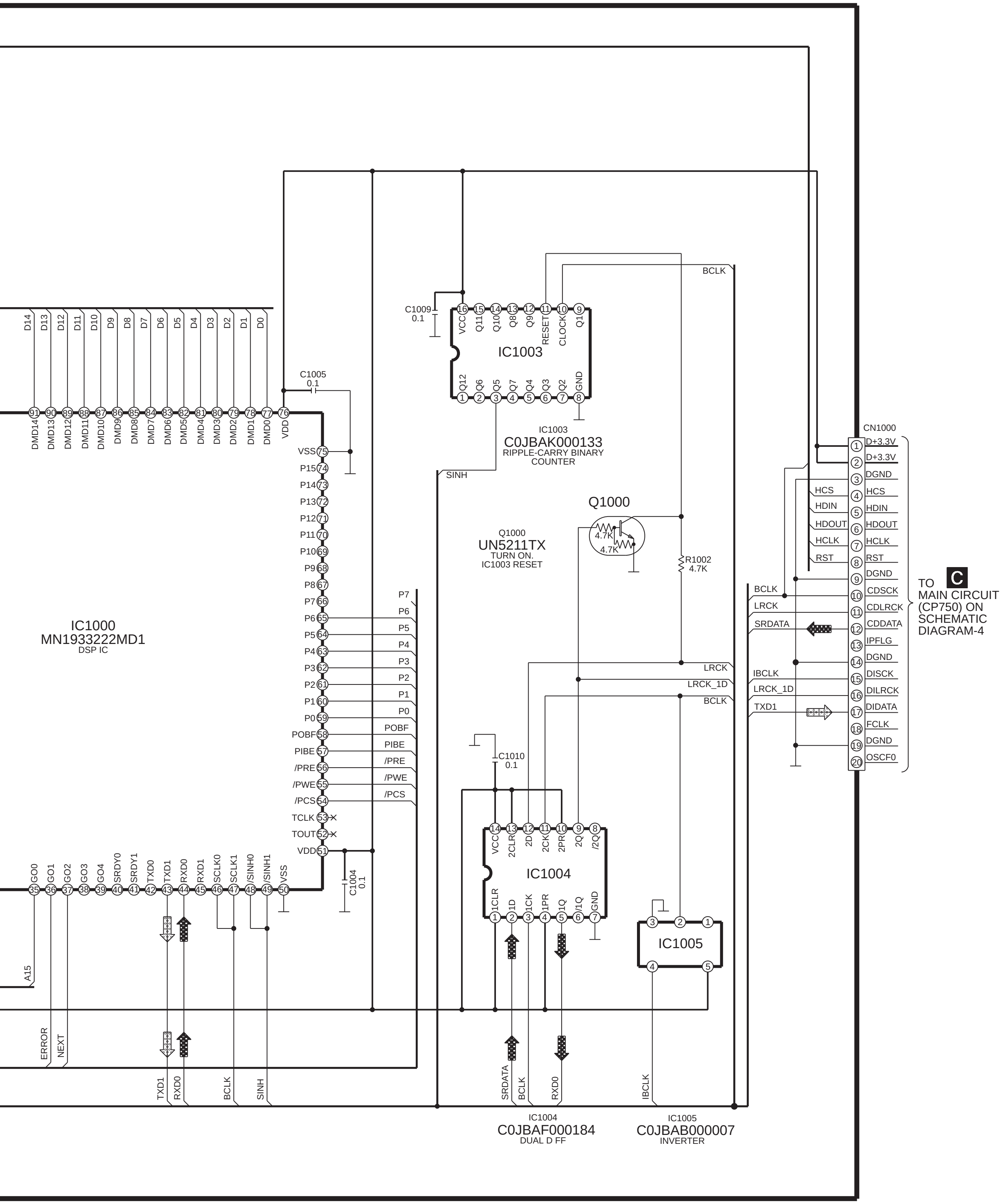
SCHEMATIC DIAGRAM-14

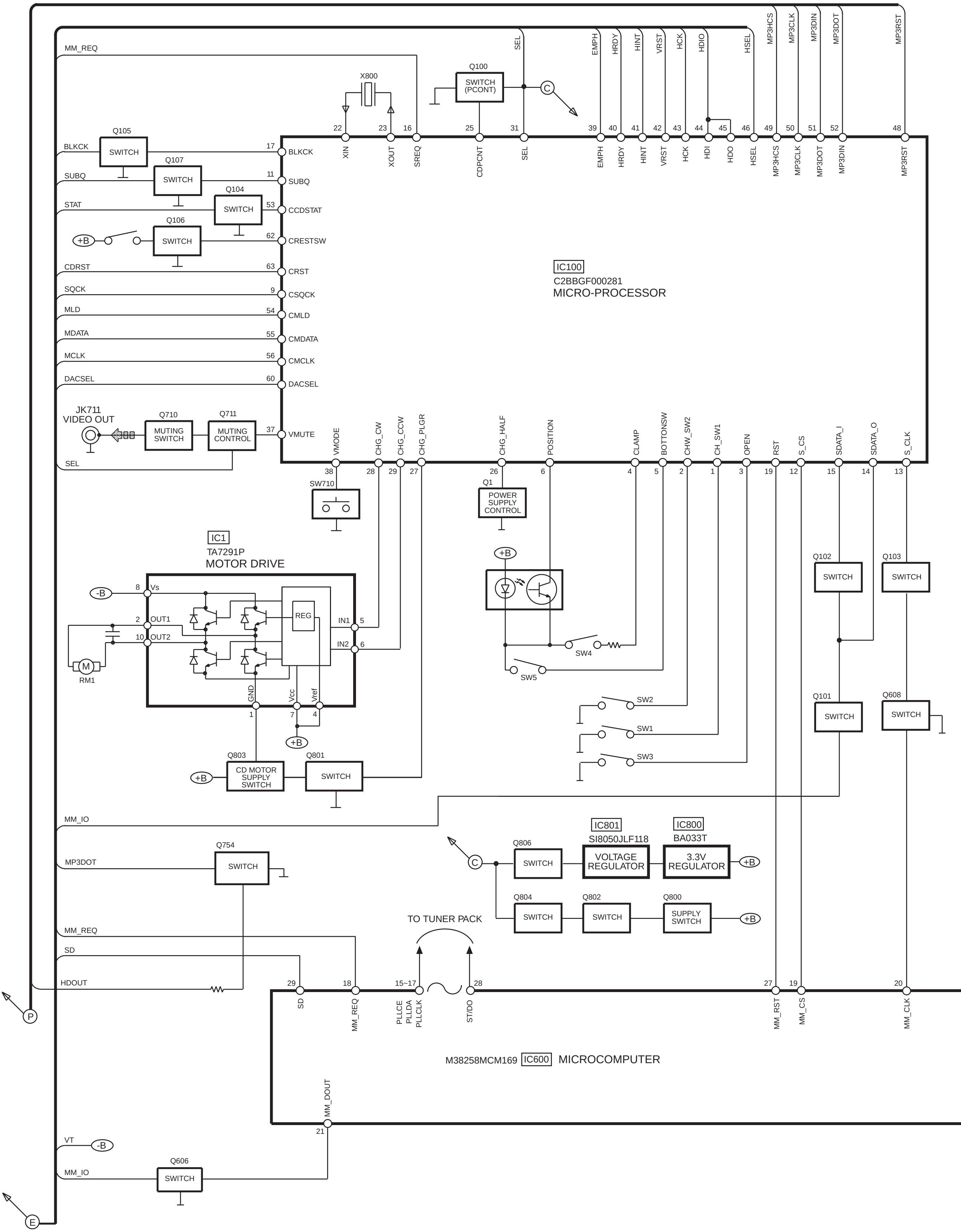
R MP3 MODULE CIRCUIT

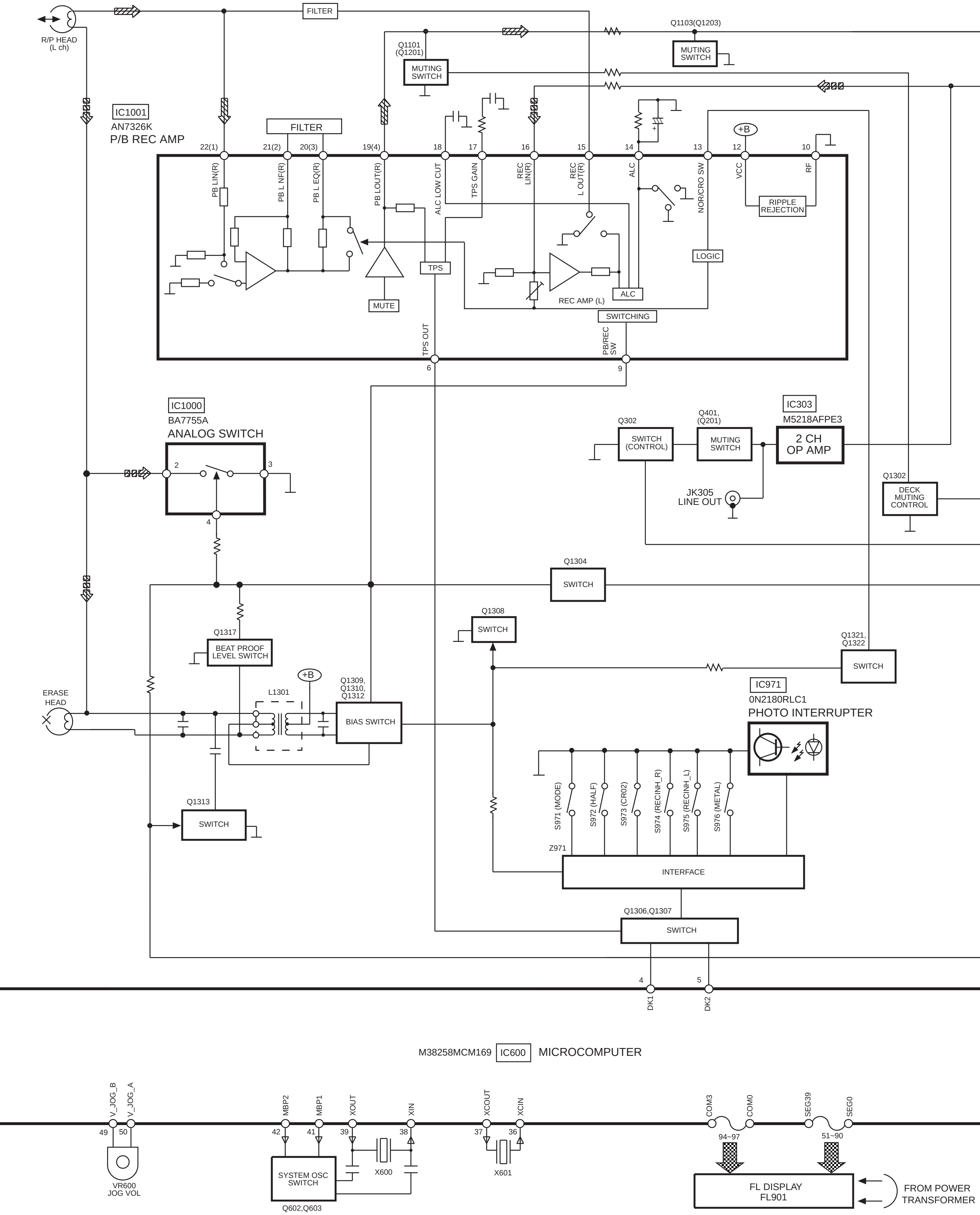
—— : +B SIGNAL LINE

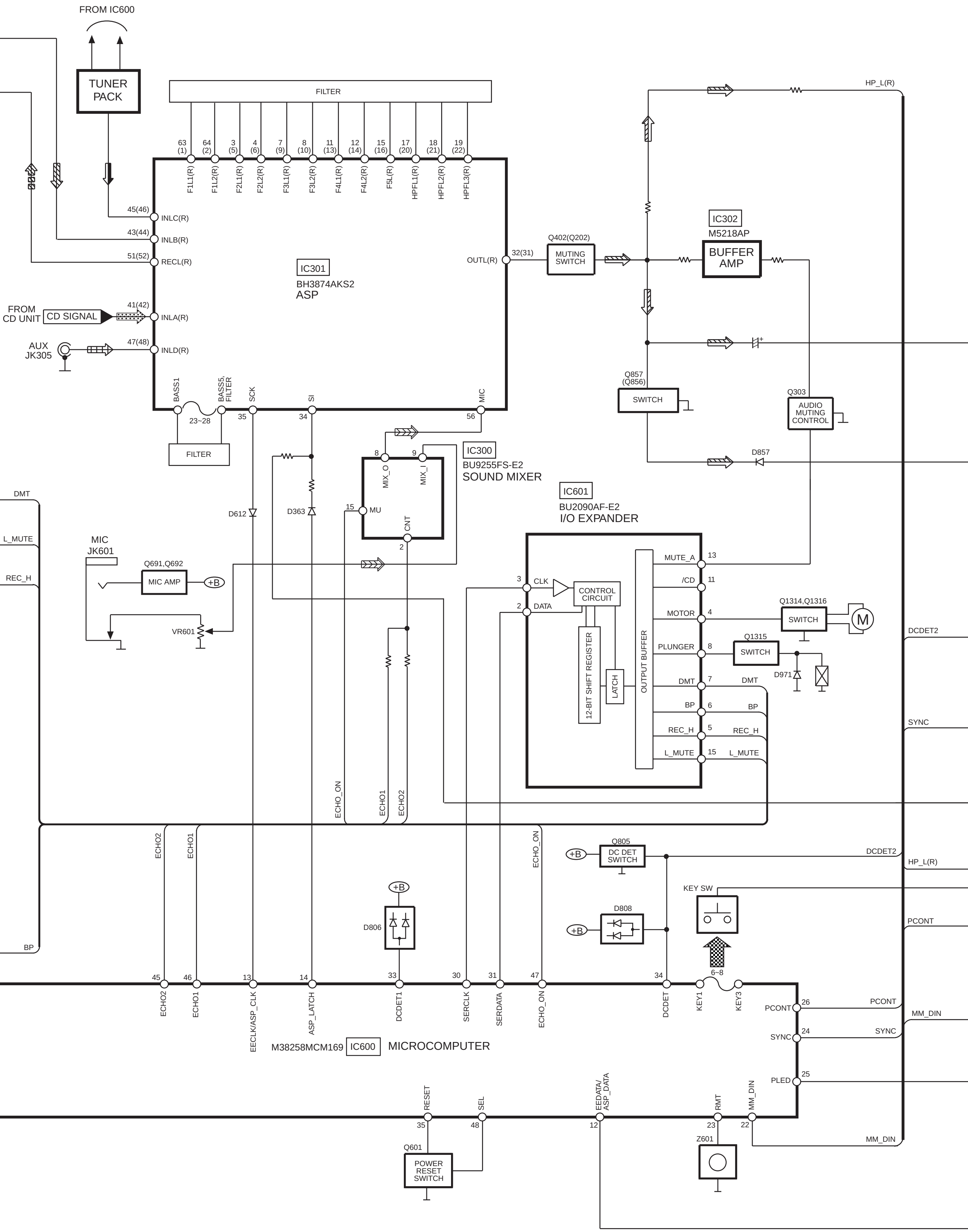
⇨ : MP3 SIGNAL LINE

➡ : CD-DA SIGNAL LINE


IC1000
MN1933222MD1
DSP IC
D14
D13
D12
D11
D10
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0
DMD14
DMD13
DMD12
DMD11
DMD10
DMD9
DMD8
DMD7
DMD6
DMD5
DMD4
DMD3
DMD2
DMD1
DMD0
VDD
VSS
P15
P14
P13
P12
P11
P10
P9
P8
P7
P6
P5
P4
P3
P2
P1
P0
POBF
PIBE
/PRE
/PWE
/PCS
TCLK
TOUT
VDD
GO0
GO1
GO2
GO3
GO4
SRDY0
SRDY1
TXD0
TXD1
RXD0
RXD1
SCLK0
SCLK1
/SINH0
/SINH1
VSS
A15
ERROR
NEXT
TXD1
RXD0
BCLK
SINH
C1005
0.1
C1004
0.1
C1009
0.1
C1010
0.1
IC1003
VCC
Q11
Q10
Q8
Q9
RESET
CLOCK
Q1
Q12
Q6
Q5
Q7
Q4
Q3
Q2
GND
IC1003
C0JBAK000133
RIPPLE-CARRY BINARY
COUNTER
BCLK
SINH
Q1000
4.7K
4.7K
Q1000
UN5211TX
TURN ON.
IC1003 RESET
R1002
4.7K
LRCK
LRCK_1D
BCLK
IC1004
VCC
2CLR
2D
2CK
2PR
2Q
/2Q
1CLR
1D
1CK
1PR
1Q
/1Q
GND
IC1005
SRDATA
BCLK
RXD0
IBCLK
IC1004
C0JBAF000184
DUAL D FF
IC1005
C0JBAB000007
INVERTER
CN1000
D+3.3V
D+3.3V
DGND
HCS
HDIN
HDOUT
HCLK
RST
DGND
CDSCK
CDLRCK
CDDATA
IPFLG
DGND
DISCK
DILRCK
DIDATA
FCLK
DGND
OSCF0
HCS
HDIN
HDOUT
HCLK
RST
BCLK
LRCK
SRDATA
IBCLK
LRCK_1D
TXD1
TO C
MAIN CIRCUIT
(CP750) ON
SCHEMATIC
DIAGRAM-4


MM_REQ
SEL
EMPH
HRDY
HINT
VRST
HCK
HDIO
HSEL
MP3HCS
MP3CLK
MP3DIN
MP3DOT
MP3RST
Q100
SWITCH (PCONT)
X800
C
22 23 16 25 31 39 40 41 42 43 44 45 46 49 50 51 52 48
XIN
XOUT
SREQ
CDPCNT
SEL
EMPH
HRDY
HINT
VRST
HCK
HDI
HDO
HSEL
MP3HCS
MP3CLK
MP3DOT
MP3DIN
MP3RST
Q105
SWITCH
BLKCK
17
BLKCK
Q107
SWITCH
SUBQ
11
SUBQ
Q104
SWITCH
STAT
53
CCDSTAT
Q106
+B
SWITCH
62
CRESTSW
CDRST
63
CRST
SQCK
9
CSQCK
MLD
54
CMLD
MDATA
55
CMDATA
MCLK
56
CMCLK
DACSEL
60
DACSEL
IC100
C2BBGF000281
MICRO-PROCESSOR
JK711
VIDEO OUT
Q710
MUTING SWITCH
Q711
MUTING CONTROL
37
VMUTE
SEL
VMODE
CHG_CW
CHG_CCW
CHG_PLGR
CHG_HALF
POSITION
CLAMP
BOTTONSW
CHW_SW2
CH_SW1
OPEN
RST
S_CS
SDATA_I
SDATA_O
S_CLK
38 28 29 27 26 6 4 5 2 1 3 19 12 15 14 13
SW710
Q1
POWER SUPPLY CONTROL
IC1
TA7291P
MOTOR DRIVE
-B
8
Vs
2
OUT1
10
OUT2
M
RM1
REG
IN1
5
IN2
6
GND
Vcc
Vref
1
7
4
+B
+B
SW4
SW5
SW2
SW1
SW3
Q102
SWITCH
Q103
SWITCH
Q101
SWITCH
Q608
SWITCH
Q803
CD MOTOR SUPPLY SWITCH
+B
Q801
SWITCH
MM_IO
IC801
SI8050JLF118
VOLTAGE REGULATOR
IC800
BA033T
3.3V REGULATOR
+B
Q806
SWITCH
C
Q754
SWITCH
MP3DOT
Q804
SWITCH
Q802
SWITCH
Q800
SUPPLY SWITCH
+B
TO TUNER PACK
MM_REQ
SD
HDOUT
29 18 15~17 28 27 19 20
SD
MM_REQ
PLLCE
PLLDA
PLLCLK
ST/DO
MM_RST
MM_CS
MM_CLK
P
M38258MCM169
IC600
MICROCOMPUTER
MM_DOUT
21
VT
-B
MM_IO
Q606
SWITCH
E

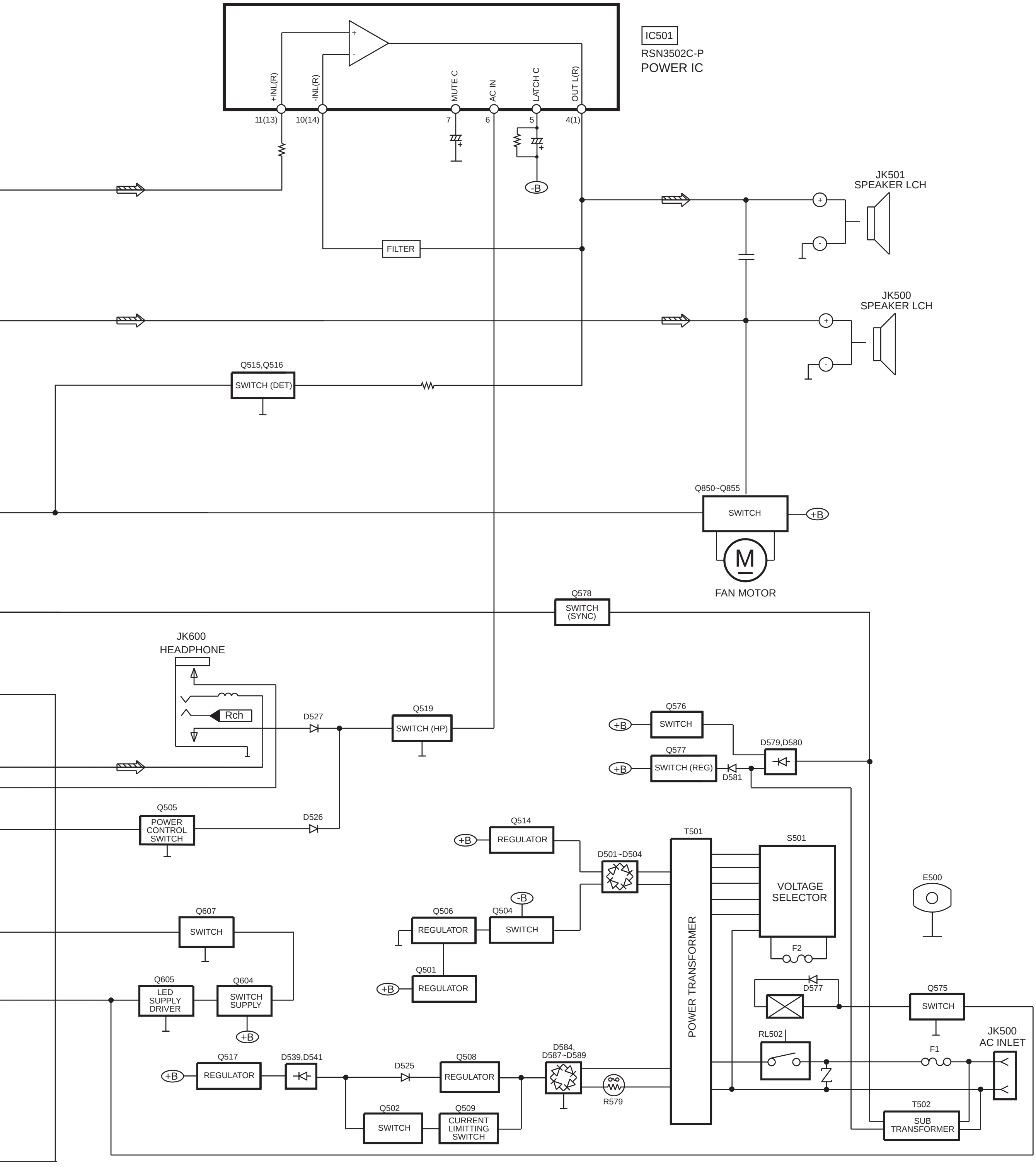

R/P HEAD
(L ch)
FILTER
Q1103(Q1203)
MUTING SWITCH
Q1101
(Q1201)
MUTING SWITCH
IC1001
AN7326K
P/B REC AMP
FILTER
+B
22(1)
21(2)
20(3)
19(4)
18
17
16
15
14
13
12
10
PB LIN(R)
PB L NF(R)
PB L EQ(R)
PB LOUT(R)
ALC LOW CUT
TPS GAIN
REC LIN(R)
REC L OUT(R)
ALC
NOR/CRO SW
VCC
RF
RIPPLE REJECTION
LOGIC
TPS
MUTE
ALC
REC AMP (L)
SWITCHING
TPS OUT
PB/REC SW
6
9
IC1000
BA7755A
ANALOG SWITCH
2
3
4
Q302
SWITCH (CONTROL)
Q401,
(Q201)
MUTING SWITCH
IC303
M5218AFPE3
2 CH OP AMP
JK305
LINE OUT
Q1302
DECK MUTING CONTROL
Q1304
SWITCH
Q1308
SWITCH
Q1317
BEAT PROOF LEVEL SWITCH
Q1321,
Q1322
SWITCH
ERASE HEAD
L1301
+B
Q1309,
Q1310,
Q1312
BIAS SWITCH
IC971
0N2180RLC1
PHOTO INTERRUPTER
S971 (MODE)
S972 (HALF)
S973 (CR02)
S974 (RECINH_R)
S975 (RECINH_L)
S976 (METAL)
Z971
INTERFACE
Q1313
SWITCH
Q1306,Q1307
SWITCH
4
5
DK1
DK2
M38258MCM169
IC600
MICROCOMPUTER
V_JOG_B
V_JOG_A
49
50
VR600
JOG VOL
MBP2
MBP1
XOUT
XIN
42
41
39
38
SYSTEM OSC SWITCH
Q602,Q603
X600
XCOUT
XCIN
37
36
X601
COM3
COM0
SEG39
SEG0
94~97
51~90
FL DISPLAY
FL901
FROM POWER TRANSFORMER

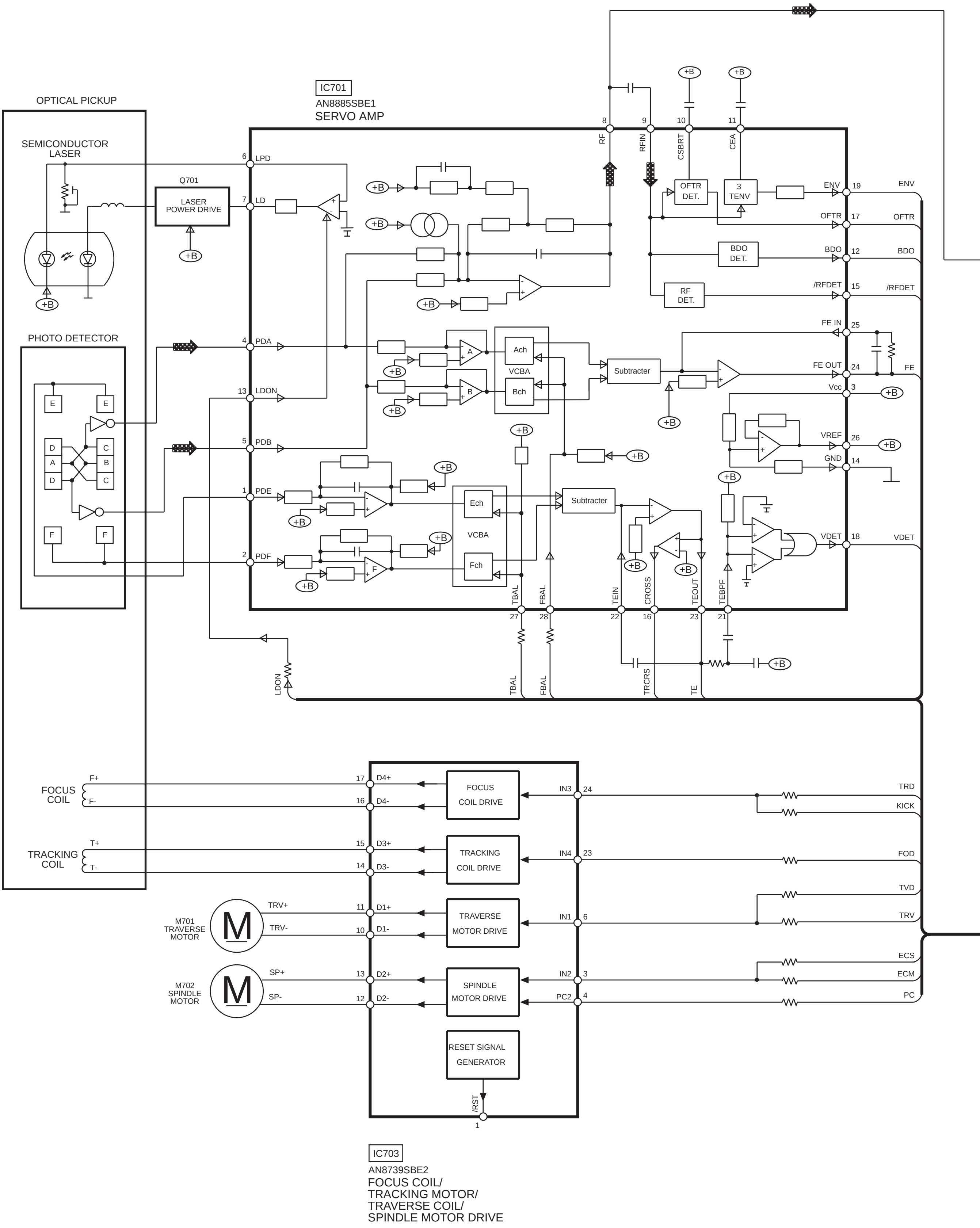

FROM IC600
TUNER PACK
FILTER
63 (1)
64 (2)
3 (5)
4 (6)
7 (9)
8 (10)
11 (13)
12 (14)
15 (16)
17 (20)
18 (21)
19 (22)
F1L1(R)
F1L2(R)
F2L1(R)
F2L2(R)
F3L1(R)
F3L2(R)
F4L1(R)
F4L2(R)
F5L(R)
HPFL1(R)
HPFL2(R)
HPFL3(R)
45(46) INLC(R)
43(44) INLB(R)
51(52) RECL(R)
IC301
BH3874AKS2
ASP
OUTL(R) 32(31)
FROM CD UNIT
CD SIGNAL
41(42) INLA(R)
AUX JK305
47(48) INLD(R)
BASS1
BASS5, FILTER
SCK
SI
MIC
23~28
35
34
56
FILTER
Q402(Q202)
MUTING SWITCH
IC302
M5218AP
BUFFER AMP
HP_L(R)
Q857 (Q856)
SWITCH
Q303
AUDIO MUTING CONTROL
D857
8
9
MIX_O
MIX_I
IC300
BU9255FS-E2
SOUND MIXER
15 MU
CNT
2
D612
D363
IC601
BU2090AF-E2
I/O EXPANDER
DMT
L_MUTE
REC_H
MIC JK601
Q691,Q692
MIC AMP
+B
VR601
3 CLK
2 DATA
CONTROL CIRCUIT
12-BIT SHIFT REGISTER
LATCH
OUTPUT BUFFER
MUTE_A 13
/CD 11
MOTOR 4
PLUNGER 8
DMT 7 DMT
BP 6 BP
REC_H 5 REC_H
L_MUTE 15 L_MUTE
Q1314,Q1316
SWITCH
M
Q1315
SWITCH
D971
DCDET2
SYNC
ECHO_ON
ECHO1
ECHO2
ECHO2
ECHO1
ECHO_ON
Q805
+B
DC DET SWITCH
DCDET2
HP_L(R)
KEY SW
+B
D806
D808
+B
PCONT
BP
45
46
13
14
33
30
31
47
34
6~8
ECHO2
ECHO1
EECLK/ASP_CLK
ASP_LATCH
DCDET1
SERCLK
SERDATA
ECHO_ON
DCDET
KEY1
KEY3
PCONT 26 PCONT
MM_DIN
SYNC 24 SYNC
PLED 25
M38258MCM169
IC600
MICROCOMPUTER
RESET
SEL
EEDATA/ ASP_DATA
RMT
MM_DIN
35
48
12
23
22
MM_DIN
Q601
POWER RESET SWITCH
Z601

SIGNAL LINES

- ⇨ MAIN SIGNAL LINE
- ⇨ MIC SIGNAL LINE
- ⇨ CD-DA SIGNAL LINE
- ⇨ VCD VIDEO SIGNAL LINE
- ⇨ CD SIGNAL LINE
- ⇨ AUX SIGNAL LINE
- ⇨ MP3 SIGNAL LINE
- ⇨ VCD AUDIO SIGNAL LINE
- ➡ FM & AM SIGNALS LINE
- ⇨ PLAYBACK SIGNAL LINE
- ⇨ RECORD SIGNAL LINE

( ) indicates Pin No. Right Channel

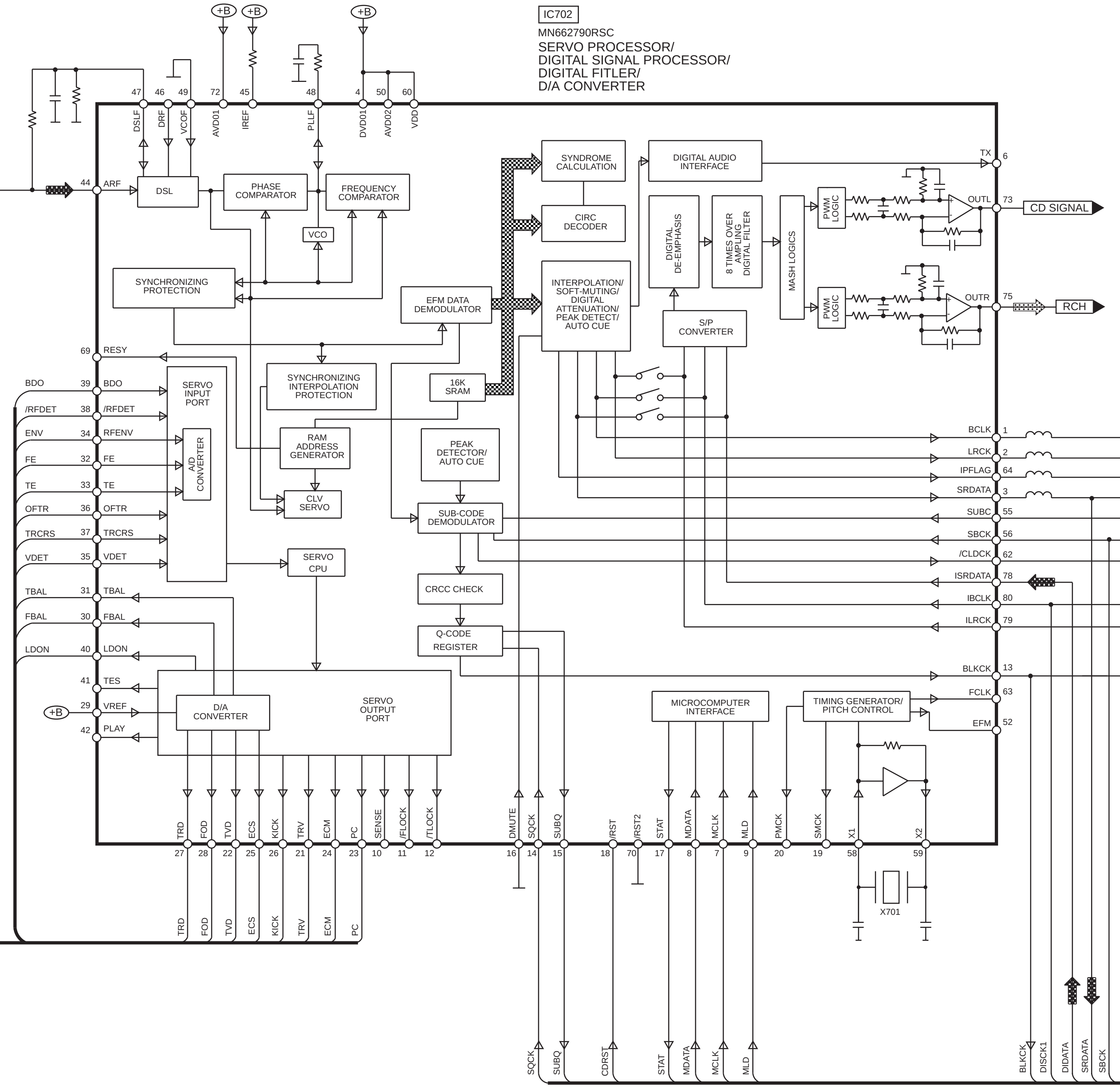

IC501
RSN3502C-P
POWER IC
+
-
+INL(R)
-INL(R)
MUTE C
AC IN
LATCH C
OUT L(R)
11(13)
10(14)
7
6
5
4(1)
-B
FILTER
JK501
SPEAKER LCH
JK500
SPEAKER LCH
+
-
Q515,Q516
SWITCH (DET)
Q850~Q855
SWITCH
+B
M
FAN MOTOR
Q578
SWITCH (SYNC)
JK600
HEADPHONE
Rch
D527
Q519
SWITCH (HP)
D526
Q505
POWER CONTROL SWITCH
Q576
SWITCH
+B
Q577
SWITCH (REG)
D579,D580
D581
Q514
REGULATOR
T501
S501
VOLTAGE SELECTOR
D501~D504
E500
Q506
REGULATOR
Q504
SWITCH
Q501
REGULATOR
F2
POWER TRANSFORMER
Q607
SWITCH
Q605
LED SUPPLY DRIVER
Q604
SWITCH SUPPLY
D577
Q575
SWITCH
RL502
JK500
AC INLET
F1
Q517
REGULATOR
D539,D541
D525
Q508
REGULATOR
D584,
D587~D589
R579
Q502
SWITCH
Q509
CURRENT LIMITTING SWITCH
T502
SUB TRANSFORMER

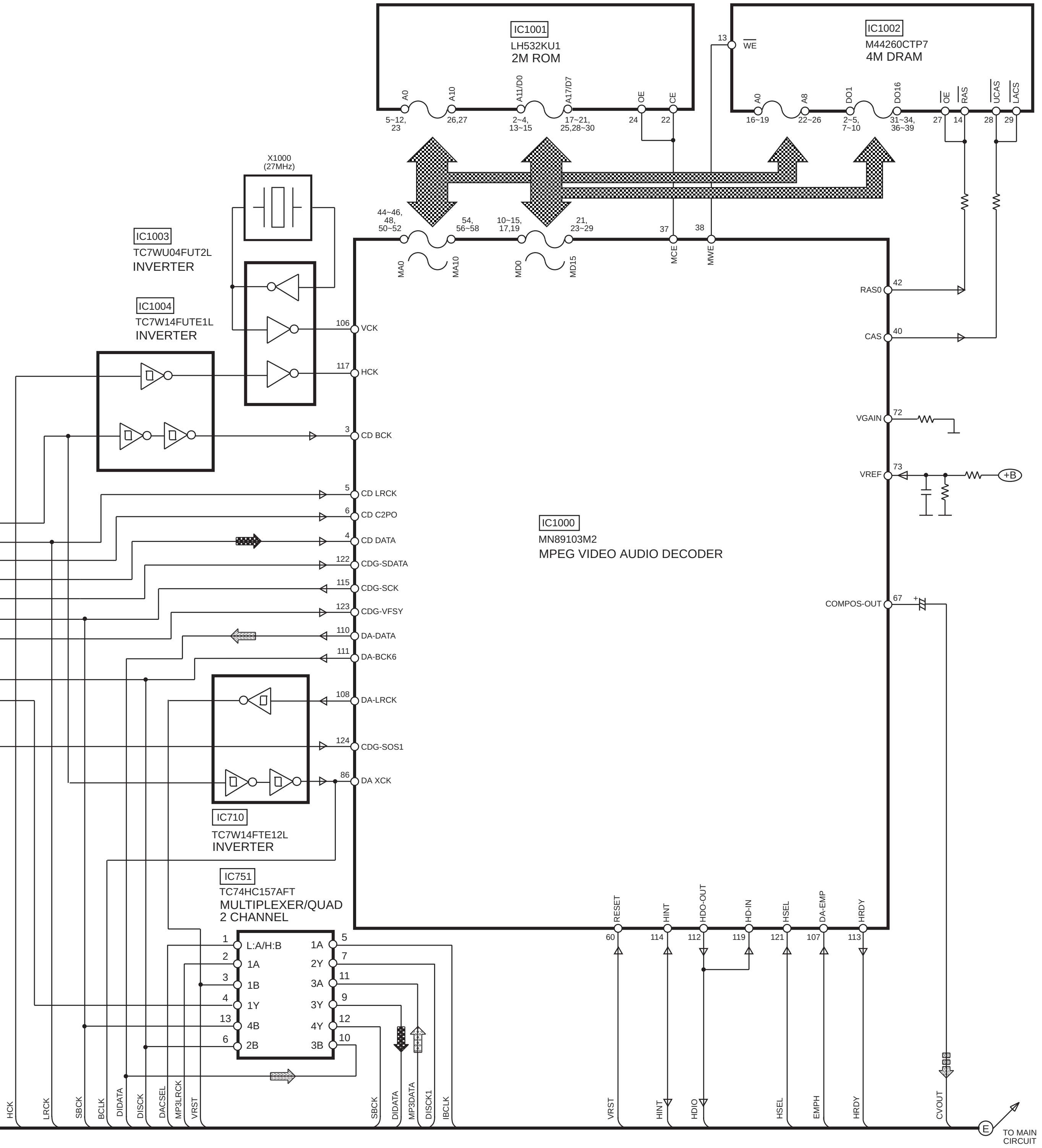

OPTICAL PICKUP
SEMICONDUCTOR LASER
+B
PHOTO DETECTOR
E
E
D
A
D
C
B
C
F
F
Q701
LASER POWER DRIVE
+B
IC701
AN8885SBE1
SERVO AMP
6 LPD
7 LD
4 PDA
13 LDON
5 PDB
1 PDE
2 PDF
8 RF
9 RFIN
10 CSBRT
11 CEA
OFTR DET.
3 TENV
BDO DET.
RF DET.
A
B
Ach
VCBA
Bch
Subtracter
Ech
VCBA
Fch
Subtracter
E
F
+B
ENV 19 ENV
OFTR 17 OFTR
BDO 12 BDO
/RFDET 15 /RFDET
FE IN 25
FE OUT 24 FE
Vcc 3
VREF 26
GND 14
VDET 18 VDET
TBAL 27
FBAL 28
TEIN 22
CROSS 16
TEOUT 23
TEBPF 21
LDON
TBAL
FBAL
TRCRS
TE
FOCUS COIL
F+
F-
TRACKING COIL
T+
T-
M701 TRAVERSE MOTOR
TRV+
TRV-
M702 SPINDLE MOTOR
SP+
SP-
M
M
17 D4+
16 D4-
15 D3+
14 D3-
11 D1+
10 D1-
13 D2+
12 D2-
FOCUS COIL DRIVE
TRACKING COIL DRIVE
TRAVERSE MOTOR DRIVE
SPINDLE MOTOR DRIVE
RESET SIGNAL GENERATOR
/RST
1
IN3 24
IN4 23
IN1 6
IN2 3
PC2 4
TRD
KICK
FOD
TVD
TRV
ECS
ECM
PC
IC703
AN8739SBE2
FOCUS COIL/
TRACKING MOTOR/
TRAVERSE COIL/
SPINDLE MOTOR DRIVE

IC702

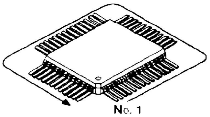
MN662790RSC

SERVO PROCESSOR/
DIGITAL SIGNAL PROCESSOR/
DIGITAL FITLER/
D/A CONVERTER

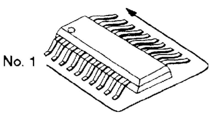

+B
+B
+B
47 DSLF
46 DRF
49 VCOF
72 AVDD1
45 IREF
48 PLLF
4 DVDD1
50 AVDD2
60 VDD
44 ARF
DSL
PHASE COMPARATOR
FREQUENCY COMPARATOR
VCO
SYNCHRONIZING PROTECTION
EFM DATA DEMODULATOR
SYNDROME CALCULATION
CIRC DECODER
INTERPOLATION/ SOFT-MUTING/ DIGITAL ATTENUATION/ PEAK DETECT/ AUTO CUE
DIGITAL AUDIO INTERFACE
DIGITAL DE-EMPHASIS
8 TIMES OVER AMPLING DIGITAL FILTER
MASH LOGICS
PWM LOGIC
PWM LOGIC
S/P CONVERTER
TX 6
OUTL 73
CD SIGNAL
OUTR 75
RCH
69 RESY
SERVO INPUT PORT
A/D CONVERTER
SYNCHRONIZING INTERPOLATION PROTECTION
16K SRAM
RAM ADDRESS GENERATOR
CLV SERVO
PEAK DETECTOR/ AUTO CUE
SUB-CODE DEMODULATOR
SERVO CPU
CRCC CHECK
Q-CODE REGISTER
BDO 39 BDO
/RFDET 38 /RFDET
ENV 34 RFENV
FE 32 FE
TE 33 TE
OFTR 36 OFTR
TRCRS 37 TRCRS
VDET 35 VDET
TBAL 31 TBAL
FBAL 30 FBAL
LDON 40 LDON
41 TES
+B 29 VREF
42 PLAY
D/A CONVERTER
SERVO OUTPUT PORT
BCLK 1
LRCK 2
IPFLAG 64
SRDATA 3
SUBC 55
SBCK 56
/CLDCK 62
ISRDATA 78
IBCLK 80
ILRCK 79
BLKCK 13
FCLK 63
EFM 52
MICROCOMPUTER INTERFACE
TIMING GENERATOR/ PITCH CONTROL
TRD 27
FOD 28
TVD 22
ECS 25
KICK 26
TRV 21
ECM 24
PC 23
SENSE 10
/FLOCK 11
/TLOCK 12
DMUTE 16
SQCK 14
SUBQ 15
/RST 18
/RST2 70
STAT 17
MDATA 8
MCLK 7
MLD 9
PMCK 20
SMCK 19
X1 58
X2 59
X701
TRD
FOD
TVD
ECS
KICK
TRV
ECM
PC
SQCK
SUBQ
CDRST
STAT
MDATA
MCLK
MLD
BLKCK
DISCK1
DIDATA
SRDATA
SBCK


IC1001
LH532KU1
2M ROM
A0
A10
A11/D0
A17/D7
OE
CE
5~12, 23
26,27
2~4, 13~15
17~21, 25,28~30
24
22
IC1002
M44260CTP7
4M DRAM
13
WE
A0
A8
DO1
DO16
OE
RAS
UCAS
LACS
16~19
22~26
2~5, 7~10
31~34, 36~39
27
14
28
29
X1000
(27MHz)
IC1003
TC7WU04FUT2L
INVERTER
IC1004
TC7W14FUTE1L
INVERTER
44~46, 48, 50~52
54, 56~58
10~15, 17,19
21, 23~29
37
38
MA0
MA10
MD0
MD15
MCE
MWE
106
VCK
117
HCK
3
CD BCK
5
CD LRCK
6
CD C2PO
4
CD DATA
122
CDG-SDATA
115
CDG-SCK
123
CDG-VFSY
110
DA-DATA
111
DA-BCK6
108
DA-LRCK
124
CDG-SOS1
86
DA XCK
IC710
TC7W14FTE12L
INVERTER
42
RAS0
40
CAS
72
VGAIN
73
VREF
+B
IC1000
MN89103M2
MPEG VIDEO AUDIO DECODER
67
COMPOS-OUT
+
IC751
TC74HC157AFT
MULTIPLEXER/QUAD
2 CHANNEL
1
L:A/H:B
2
1A
3
1B
4
1Y
13
4B
6
2B
5
1A
7
2Y
11
3A
9
3Y
12
4Y
10
3B
RESET
HINT
HDO-OUT
HD-IN
HSEL
DA-EMP
HRDY
60
114
112
119
121
107
113
HCK
LRCK
SBCK
BCLK
DIDATA
DISCK
DACSEL
MP3LRCK
VRST
SBCK
DIDATA
MP3DATA
DISCK1
IBCLK
VRST
HINT
HDIO
HSEL
EMPH
HRDY
CVOUT
E
TO MAIN
CIRCUIT

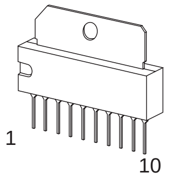
MN89103M2 (128P)
MN662790RSC (80P)
BH3874AKS2 (64P)
M38258MCM169 (100P)
C2BBGF000281 (64P)
MN1933222MD1 (100P)
MN101C427MA2 (44P)
C3BBHG000048 (44P)



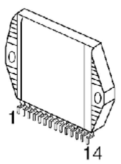
BU9255FS-E2 (16P)
AN8885SBE1 (28P)
M44260CTP7 (44P)
TC7W14FTE12L (8P)
TC7WU04FUT2L (8P)
TC7W14FUTE1L (8P)
LH532KU1 (32P)
BU2090AF-E2 (16P)



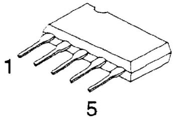
TA7291P



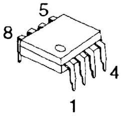
RSN3502C-P



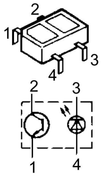
BA7755A



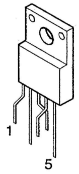
M5218AP
M5218AFPE3



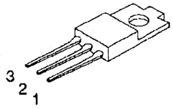
0N2180RLC1



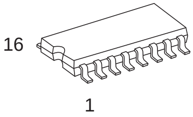
SI8050JLF118



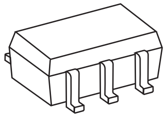
BA033T



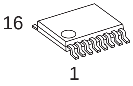
TC74HC157AFT
TC74HC4050EL



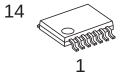
C0JBAB000007



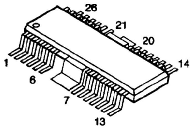
C0JBAK000133



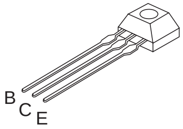
C0JBAF000184



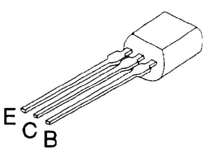
AN8739SBE2
AN7326K


26
21
20
14
1
6
7
13

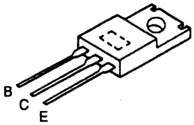
KRA102MTA
KRA110MTA
KRC102MTA
KRC119MTA
KRC111STA
2SC1740SSTA
2SD2144STA



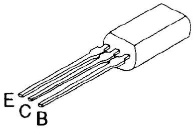
KTA12710YTA
2SB621ARSTA
2SC1845FTA
2SC2001LTA
2SD965RTA
2SD1450STA
2SB621ARTA
KTA1504GRTA



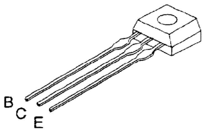
KTC2026
KTA1046



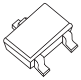
KRC114MTA
2SC3940AQSTA



2SA933SSTA
KTC3199GRTA
RVTDTC143EST



UN5211TX



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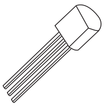

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2SA1037AKSTX
2SC3326BT5M
2SC2712GRT5T
KTC3875GRTA
KRA111STA
KTD1304TA
KRA102STA
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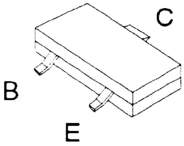
KRC103STA
KRC101STA



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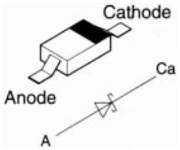
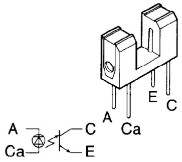
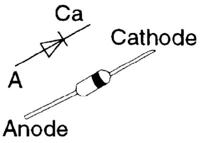
1SS380TE-17


Cathode
Anode
Ca
A

GP1S94


E
C
A
Ca
A
C
Ca
E

RVD1SS133TA
MA165TA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A
Anode

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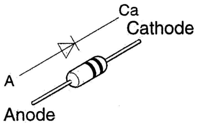
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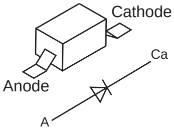
Cathode
A
Anode

RB751V-40
RB501V-40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Anode
Ca
A

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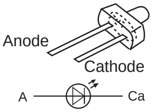
Anode
Cathode
A
Ca

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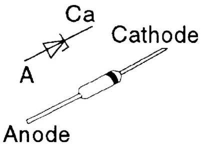
MTZJ15BTA
MTZJ15CTA
MTZJ4R7BTA
MTZJ5R6BTA
MTZJ7R5ATA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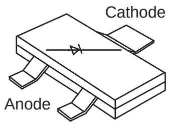
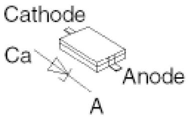
Cathode
A
Anode

MA704ATX


Cathode
Anode

1SS355TE17


Cathode
Ca
Anode
A

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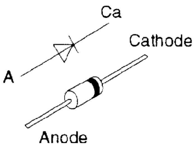
RL1N4003N02


Ca
Cathode
A
Anode

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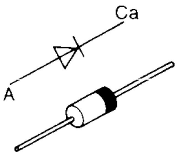

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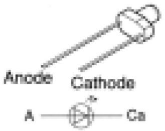
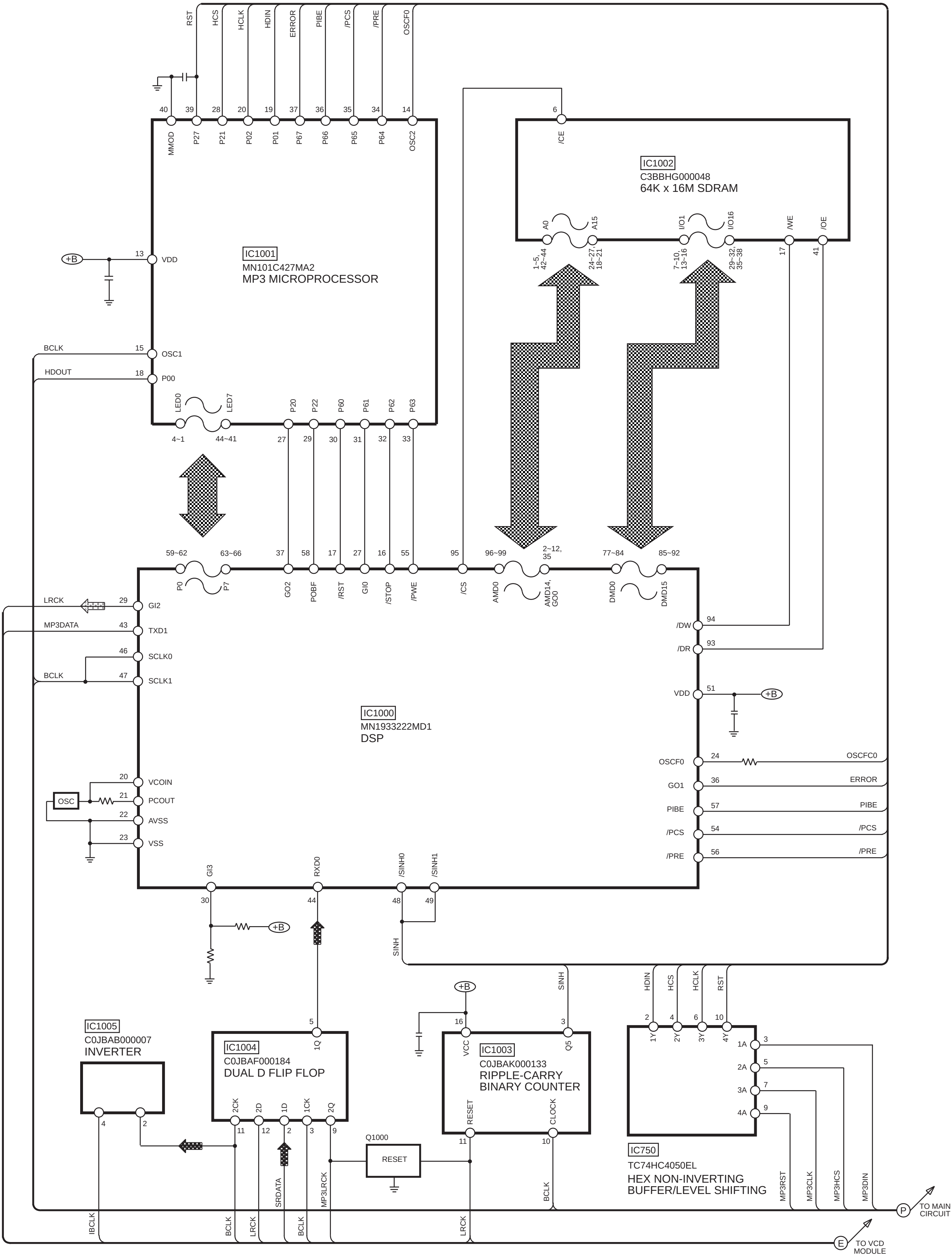
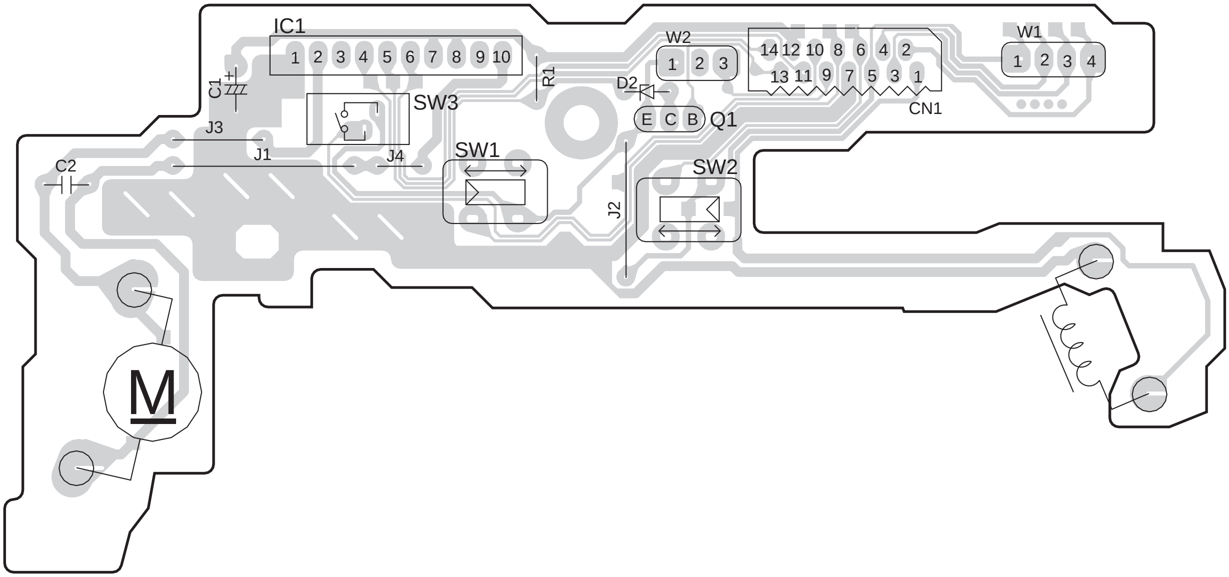
SLI325URCT31

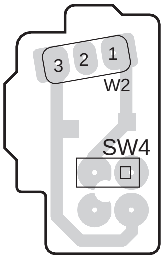

Anode
Cathode
A
Ca


RST
HCS
HCLK
HDIN
ERROR
PIBE
/PCS
/PRE
OSCF0
40
39
28
20
19
37
36
35
34
14
MMOD
P27
P21
P02
P01
P67
P66
P65
P64
OSC2
IC1001
MN101C427MA2
MP3 MICROPROCESSOR
+B
13
VDD
BCLK
15
OSC1
HDOUT
18
P00
LED0
LED7
P20
P22
P60
P61
P62
P63
4~1
44~41
27
29
30
31
32
33
6
/CE
IC1002
C3BBHG000048
64K x 16M SDRAM
A0
A15
I/O1
I/O16
/WE
/OE
1~5, 42~44
24~27, 18~21
7~10, 13~16
29~32, 35~38
17
41
59~62
63~66
37
58
17
27
16
55
95
96~99
2~12, 35
77~84
85~92
P0
P7
GO2
POBF
/RST
GI0
/STOP
/PWE
/CS
AMD0
AMD14, GO0
DMD0
DMD15
LRCK
29
GI2
MP3DATA
43
TXD1
46
SCLK0
BCLK
47
SCLK1
94
/DW
93
/DR
VDD
51
+B
IC1000
MN1933222MD1
DSP
OSCF0
24
OSCFC0
GO1
36
ERROR
PIBE
57
PIBE
/PCS
54
/PCS
/PRE
56
/PRE
OSC
20
VCOIN
21
PCOUT
22
AVSS
23
VSS
GI3
RXD0
/SINH0
/SINH1
30
44
48
49
+B
SINH
SINH
HDIN
HCS
HCLK
RST
IC1005
C0JBAB000007
INVERTER
4
2
5
1Q
IC1004
C0JBAF000184
DUAL D FLIP FLOP
2CK
2D
1D
1CK
2Q
11
12
2
3
9
Q1000
RESET
+B
16
3
VCC
Q5
IC1003
C0JBAK000133
RIPPLE-CARRY
BINARY COUNTER
RESET
CLOCK
11
10
2
4
6
10
1Y
2Y
3Y
4Y
1A
3
2A
5
3A
7
4A
9
IC750
TC74HC4050EL
HEX NON-INVERTING
BUFFER/LEVEL SHIFTING
IBCLK
BCLK
LRCK
SRDATA
BCLK
MP3LRCK
LRCK
BCLK
MP3RST
MP3CLK
MP3HCS
MP3DIN
P
TO MAIN CIRCUIT
E
TO VCD MODULE

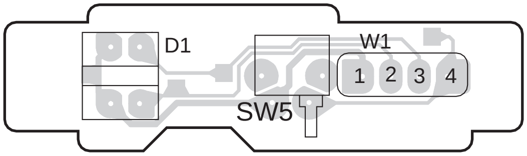
O MOTOR P.C.B (REP2578A-N)


IC1
1 2 3 4 5 6 7 8 9 10
C1
+
SW3
R1
D2
W2
1 2 3
14 12 10 8 6 4 2
13 11 9 7 5 3 1
CN1
W1
1 2 3 4
E C B
Q1
J3
J1
J4
C2
SW1
SW2
J2
M

P CD DETECT P.C.B (REP2578A-N)



Q SPINDLE POSITION P.C.B (REP2578A-N)


D1
W1
1 2 3 4
SW5